



TELEPHONE: CENTRAL 3617
TELEGRAMS: "CHEMICUS,
CANNON, LONDON" (2 words)

PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION WITH
DIARY 20/- PER ANNUM.
SINGLE COPIES 9d.

No. 2333.

OCTOBER 11, 1924.

Vol. CI.

Co-Operative Advertising The 'Allenburys' CALENDAR for 1925

Overprinted with Chemists' Own Name and Address

THE experience of many years has proved the success of the 'Allenburys' series of calendars; they are highly appreciated by the public and are effective advertising from the point of view of the pharmacist. The picture for the 1925 calendar, 'A Dillar a Dollar,' is the second of a series on the subjects of well-known Nursery Rhymes and Legends. The reproduction in colours of this picture has been carried out most successfully and the whole production is one of considerable artistic merit. These calendars are sure to delight, especially the ladies and children, and will be a constant reminder of the giver for the whole of the year and probably much longer. The price, 2/6 per doz, carriage paid, is considerably less than the cost of production. Three dozen is the minimum quantity that can be overprinted with own name and address. We can supply envelopes to fit the calendars at 8d. per dozen.

Size of picture - - - 6 $\frac{3}{8}$ in. \times 8 $\frac{3}{4}$ in.

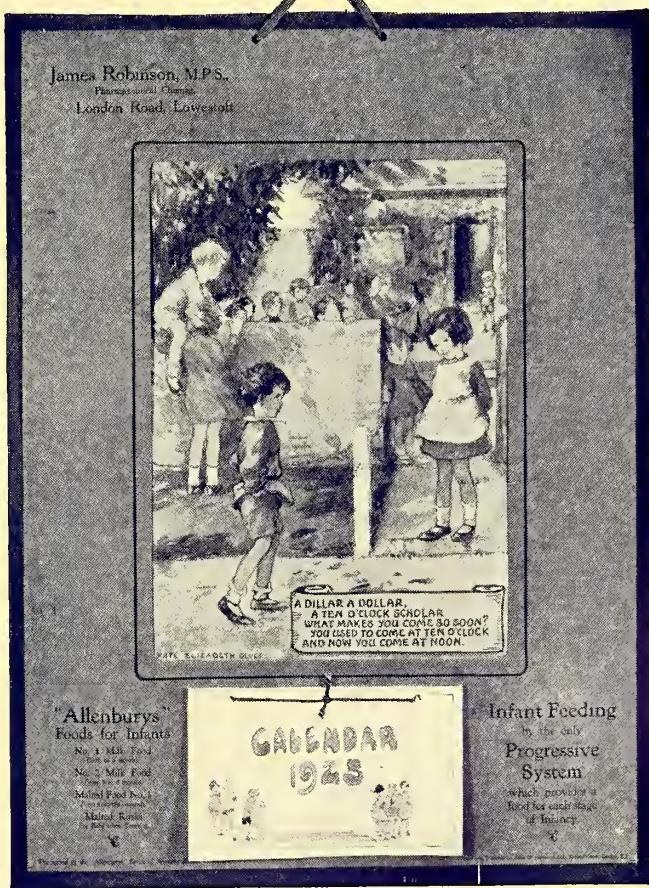
Size of complete calendar - 11 in. \times 15 in.

Kindly let us know your requirements as soon as possible as orders can be accepted only so far as the limited edition will permit. Particulars of the name and address to be overprinted should accompany each order.

Specimen copies sent to Pharmacists free on request.

Allen & Hanburys Ltd.
Bethnal Green - - London, E. 2.

Telephone: 1122 BISHOPSGATE (six lines).
Telegrams: "GREENBURYS EDO LONDON."



Send a post card for
May, Roberts'
New General List
October 1st

7/13 Clerkenwell Road,
London, E.C.1

(Generous) + (Quick Turnover) = (Sound Business)

This is an equation with which every progressive Pharmacist will agree.

It is a formula which applies with particular force to "THERMOGENE."

"THERMOGENE" is widely advertised. This results in constant and regular sales, meaning quick turnover. "THERMOGENE" profits are liberal—see below.

This combination of quick turnover and good profits has made for "THERMOGENE" a host of enthusiastic friends in the trade.

Are you reaping the benefit—as they are?

"THERMOGENE"

TRADE MARK REGD
CURATIVE WADDING

Study these BONUS Window Display Terms for England, Scotland & Wales

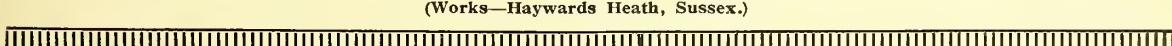
Carriage paid to destination. Containers supplied free. Net Cash in 30 days.

Standard Assortments	Contents (with bonus). Dozens			Net Cost per Dozen		Costs You £ s. d.	Yields. £ s. d.	Total Profit £ s. d.	Percentage of profit on selling price
	1/3 P.A.T.A.	3/- P.A.T.A.	1/3	1/3	3/-				
A S	6½	—	½	11/5	—	3 8 6	4 17 6	1 9 0	29¾%
B S	4½	1	½	11/5	27/4	3 13 0	5 3 6	1 10 6	29½%
C S	6½	1	½	11/5	27/4	4 2 2	5 15 6	1 13 4	28¾%
D S	4½	2	½	11/5	27/4	5 0 4	6 19 6	1 19 2	28%
X S	½	3	½	—	27/4	4 2 0	5 15 6	1 13 6	29%
K S	13	—	1	11/2	—	6 14 0	9 15 0	3 1 0	31½%
L S	9	2	1	11/2	26/8	7 2 8	10 7 0	3 4 4	31%
M S	13	1	1	11/2	26/8	8 0 8	11 11 0	3 10 4	30½%

The above terms are conditional upon a 14 days' Window Display being given, and P.A.T.A. protective prices being maintained.

For New Showcards, Order Forms, and full particulars, please write to :

The Sales Manager
THE THERMOGENE COMPANY, LTD.
LEVER HOUSE
VICTORIA EMBANKMENT
LONDON
E.C.4
(Works—Haywards Heath, Sussex.)



Announcement

PARFUMERIE L. T. PIVER

beg to announce to their trade friends the
REDUCTION OF THE MINIMUM RETAIL
PRICE for their well-known face powders:

LE TRÈFLE INCARNAT,
AZUREA, FLORAMYE,
POMPEIA

at the standardised uniform rate of

2/6
per box.

The wholesale price of **20/-** per dozen
remains unchanged, thus guaranteeing to the
retailer the usual profit of **33 $\frac{1}{3}$** per cent., as
customary on all L. T. PIVER'S specialities.

This step has been taken with the full
co-operation of the leading retail houses. Par-
fumerie L. T. PIVER appeal with confidence
for the cordial support and co-operation of the
Trade in maintaining the standard price, as a
matter of sound business policy, and in the
mutual interests of Trade, Public and Producer.

P A R I S

1st October, 1924

London Depot: 102 DEAN STREET, OXFORD STREET, W.1
Depot or Irish Free State: G. J. DAVIES, 27 EUSTACE STREET, DUBLIN

Products of Quality "WANDER" BRAND and "OWN NAME"

"WANDER" BRAND.

OPINIONS vary as to which is the better policy. To sell an "Own Name" or a "Branded Line" of Malt Extract with Cod Liver Oil.

Price Cutting and Competition are causing pharmacists to consider the question seriously. The demand for a branded line is increasing and "Wander" Brand Malt and Oil has been placed on the market to meet a large number of applications made to us.

Malt and Oil bearing our name and guarantee will be readily acceptable to the public, and to the medical profession. We state boldly that it cannot be excelled for quality and delicious flavour. The protected (P.A.T.A.) prices of "Wander" Brand Malt and Oil yield the handsome profit of 36% to 40% on s.p.

"Wander" Brand is a line the pharmacist can adopt with enthusiasm and push with vigour. It presents Reputation, Quality and a High Profit Margin.



"OWN NAME AND ADDRESS."

IF your demand is for an "Own Name" line of Malt and Oil we can help you to increase your turnover as we have in the case of a large number of other pharmacists.

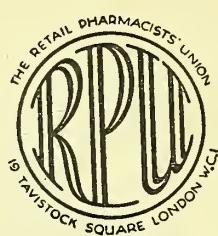
Our records contain particulars of customers whose total sales have advanced as much as 600% in one season.

The exceptionally high quality of our products and the service we render in the form of showcards, selling leaflets, original window displays, will profitably increase your business no matter how good you may judge this to be.

Allow us to submit you specimens without obligation of any kind. Compare them with others and let analysis be the standard of judgment. We can please you if you will kindly grant us the opportunity.

Send your enquiries first to
A. WANDER Ltd.,
Manufacturing Chemists,
London & King's Langley,
HERTS.





ELOQUENT TESTIMONY REGARDING The Benefits of R.P.U. Membership

September, 1924.



Dear Sir,

It is difficult to realise the position I would have been in if anything more serious had happened, as it easily could have done, if I had not been covered by your generous policy, to say nothing of the prompt and easy way the matter has been settled.

It only shows you that no matter how great an experience one has, and I have had 30 years in the trade, there comes a time when the human element of certainty fails, and it behoves every person in business to insure against such a possibility.

I thank you sincerely for your great help.

Yours truly,



**NO CHEMIST in BUSINESS can be SURE
HE WILL NOT NEED SIMILAR HELP**

APPLY FOR PARTICULARS OF MEMBERSHIP

THE RETAIL PHARMACISTS' UNION

19 TAVISTOCK SQUARE, LONDON, W.C.1

G. A. MALLINSON, Secretary.

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"STAFFALLENS"

OIL OF EUCALYPTUS

OIL OF PENNYROYAL.

OIL OF PINE.

LIQ. EXT. OF IPECACUANHA.

LIQ. EXT. OF LICORICE.

LIQ. EXT. OF CASCARA SAGRADA.

IRON AND AMMONIUM CITRATE.

IRON AND QUININE CITRATE.

STAFFORD ALLEN & SONS, LTD.

COWPER STREET, FINSBURY, LONDON, E.C.2

TELEGRAMS:
"STAFALENS, FINSQUARE, LONDON."

TELEPHONE:
CLERKENWELL 2100 (4 LINES).

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ARE **YOU SELLING****GLYCERINE, LEMON & HONEY**

AND

GLYCERINE, LEMON AND HONEY JUBES?

IF NOT — YOU ARE LOSING VERY PROFITABLE BUSINESS.

The demand has greatly exceeded our highest expectations and we are already receiving repeat orders.

PACKED IN TWO STYLES.

TAPER NECKED PANELS WITH BLACK AND YELLOW LABELS.

1/- size	7/- per dozen	78/- per gross.
1/9 "	10/- "	114/- "

WHITE FLINT PANEL FLATS, WITH "LEMON" LABEL IN GREEN & YELLOW.

10½d. size	6/6 per dozen	72/- per gross.
1/6 "	8/6 "	96/- "

GLYCERINE, LEMON AND HONEY JUBES.

3 oz. Cartons ... 4/6 per doz. ... 48/- per gross.

With each of these lines a window-show bonus of 1 dozen is given free with every order for 1 gross.

PLENTY OF EXCELLENT SHOW MATERIAL PROVIDED.

Write for samples to

CHRYSTOID (Chemists) LTD.

1-3 Gower Street, BOOTLE, LIVERPOOL

Telephone: BOOTLE 126.

Telegrams: "BLUECHRYS, LIVERPOOL."



THE
MORNY
 BATH SOAPS
 DE LUXE

Perfumed
"CHAMINADE"
"JUNE ROSES"
"SÉRÉNADE"
"YESHA"
**"NUIT DE
CARNAVAL"**



Perfumed
"MYSTÉRIEUSE"
"LA VALSE"
"NOCTURNE"
"VIOLETTE-
MORNY" -
&c., &c.

IN CARTONS OF THREE OR SIX
 MAMMOTH SIZE (7 oz.) OVAL TABLETS.

Retailing	:	:	2/3 per tablet.
Wholesale	:	:	18/- per dozen tablets.

The MORNY "de Luxe" quality Bath Soaps are recognised by discriminating buyers as the last word in Soap Specialisation, and are particularly appreciated for their exquisitely original and lasting perfumes.

The Morny Fine Perfumery Products are an adornment to the Highest Class Retail Establishment and attract the best type of customer.

EXTENSIVELY ADVERTISED IN THE PRESS.

Artistic Showcards and Descriptive Pamphlets on request.

APPLY FOR TERMS AND PRICES TO—

MORNY FRÈRES, LIMITED, 6 NEW BURLINGTON STREET, LONDON, W.1

TRUTH in ADVERTISING

Rexall
TRADE MARK
REMEDIES

THREE are still a few areas not represented by Rexall Chemists, in which we are prepared to place additional Rexall Agencies. Enquiries from Chemists in these districts will be welcomed and will not entail any obligation whatever on the Chemists' part. For particulars together with a copy of "The Rexall Idea" write to—

THE recent International Advertising Convention in London very properly chose the words "Truth in Advertising" as the basis of all its discussions. It is opportune to recall that the well-known "REXALL" medicinal Remedies and Toilet Preparations, which are sold and recommended by over 1,250 retail chemists in Great Britain and Ireland, have always been advertised and sold under the banner of truth, and in the full glare of publicity.

Almost all the Rexall preparations give a list of the ingredients on the package, and furthermore, every REXALL CHEMIST has a copy of the REXALL FORMULARY BOOKLET, showing clearly the formula of the Rexall medicinal preparations. Medical men, or members of the public, are always welcome to see the formula of any Rexall preparation in which they may be interested.

It is noteworthy, also, that on the express instructions of the founder of REXALL, Mr. Louis K. Liggett, the following announcement appears in REXALL advertising leaflets, of which many hundred million copies are circulated every year :—

In advertising Rexall Remedies extravagant claims are avoided. You are not told that any preparation will absolutely effect a cure. While that may be true in some cases, it may not be true in yours.

The Rexall Policy

The irrefragable policy behind every REXALL preparation may be summed up briefly as follows :—

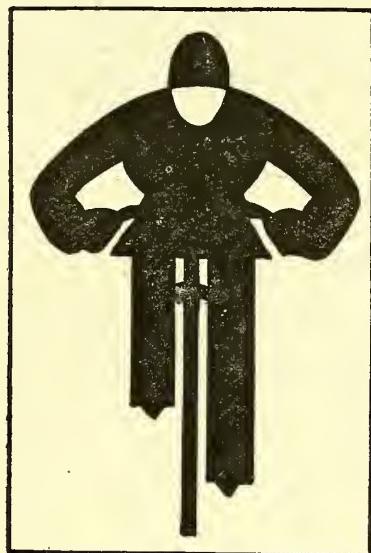
1. Honesty of Purpose.
2. Skill in Manufacture.
3. Purity of Drugs.
4. Satisfaction to the User.

REXALL Remedies and Toilet Preparations are with few exceptions BRITISH MADE ENTIRELY.

UNITED DRUG COMPANY LIMITED, NOTTINGHAM.

C.F.H.

PUSHING AHEAD



You don't have to wait long for business when Nupines are displayed in your window. They are the world's best pine tablet, and are always in big demand all over the country. We annually turn out tons of this popular line, and there must be a reason for this tremendous business. As a matter of fact, there are several ; pleasant to the taste, do not break up in the mouth, but slowly dissolve right down to a wafer. Now are you going to secure your share of this big business ? Don't be out of stock when a customer asks for them by name—"A packet of Nupines, please." They have always been one of the best little lines the pharmacist could handle. Price : Sanitape 45/- gross ; Loose 48/- gross ; Retail 6d. packet. Also 3d. packets : Loose 24/- gross ; Sanitape 22/6 gross.

*The
World's* **NUPINES** REGD *Pine
Tablet*



W. B. CARTWRIGHT LTD. - RAWDON NEAR LEEDS

TRUTH IN ADVERTISING

**2,000 BOTTLES
OF
INFLUENZA MIXTURE
SOLD IN ONE WEEK!**

**ABSOLUTE PROOF
THAT THE
INFLUENZA MIXTURE**

we pack in thirteen different styles is the most efficacious of all Influenza specifics

COMES FROM
ONE MIDLAND CHEMIST

WHO
SOLD OVER 2,000 BOTTLES
during the **ONE WEEK** ending Feb. 16th, 1924

8 oz. Unstamped Styles - 8/- per doz.
7/6 per doz. in Gross Lots.

8 oz. Stamped Styles - 11/- per doz.
10/6 per doz. in Gross Lots.

LARGER SIZES

	12 oz.	16 oz.	20 oz.
Unstamped	11/-	12/6	14/6 per doz.
Stamped	17/-	18/6	20/6 "

AMPLE SUPPLIES OF SELLING AIDS SUPPLIED,
including:

LANTERN SLIDE bearing Chemist's name and address and above arresting figure of "Sneezing man" given free with orders for 6 dozen. Brings wonderful results when shown at your local Cinema.

ELECTRO (also of above "Sneezing man") gladly loaned to all our chemist friends ordering six dozen. Invaluable in local newspaper advertising.



COPYRIGHT.

**CAN YOU
AFFORD TO BE
WITHOUT THIS
100%
PROFIT BEARER**

WHICH, PREPARED FROM A
TIME-HONOURED FORMULA,
ENJOYS SUCH
**AMAZING
SALES**

?

Show Cards. "Sneezing Man" Border Paper. "Cut-Out" Stand to display One Bottle. "Stick-In" Show cards, etc.

SOUTHALL BROS. & BARCLAY, LTD.

Packed Goods Specialists
BIRMINGHAM.

Maw's Page



Capitalize the Reputation of The House of Maw.

FOR well over a century the name of "Maw" has been familiar to the buying public. It has always been associated with irreproachable quality and reasonable price, and has come to be regarded as the hall mark of reliability. Therefore the name of "Maw" has earned the goodwill of the buyer, and possesses a definite selling value. Do you realise that this goodwill, this selling force behind the name of "Maw," is the sole property of the retail pharmacist? No other trader can benefit by that goodwill, because goods bearing the name of "Maw" are only sold to pharmacists. The name of "Maw" works for you: the reputation which the House of Maw has won by over a century of strenuous endeavour is yours. Make the best use you can of this ready-made goodwill by using your best efforts to push Maw's goods. Remember, when you sell a Maw's line, the quality will do you credit and build future business which must come to you. The public cannot buy Maw's goods from the hairdresser, the draper, the fancy goods dealer, or any other outside competitors of the pharmacist.

*Buy it at Maw's—The Ancient
House with Modern Methods.*

Telephone:
City 7891-3
Private
Branch
Exchange

Te'grams:
Eleven
Cent
London

S. Maw, Son & Sons, Ltd.,
Aldersgate St., London,
and Barnet.

Cables:
Eleven
London

Code:
A.B.C.
4th & 5th
Edition





PRIDE of PRESENTATION

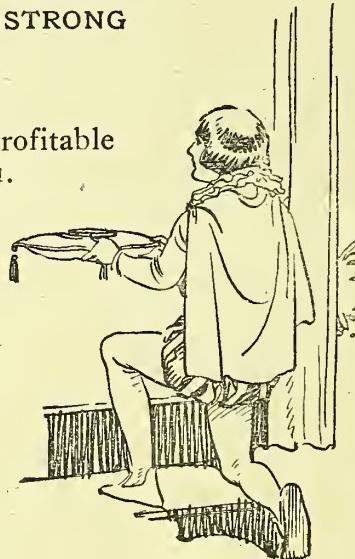
Present "Glossettes" with pride. Sell them with satisfaction. Don't think because there are small tins of "Pellets" at higher prices that they are better than the 4½d. tin of "Glossettes." "Glossettes" are the supreme Licorice and Menthol Pellet, and are offered at the popular prices of 4½d. and 9d. the box.

UNIFORM IN QUALITY AND SHAPE
GLOSSY AND BLACK, HARD AND STRONG
—and, even in the Tropics, they
NEVER STICK TOGETHER.

Therefore you must not miss the profitable opportunity that "Glossettes" give you.

Glossettes
REGD.
FREE OFFER!

Are you Window-wise? Write now for our particularly generous Window Show Bonus Offers on £3 and £5 orders.

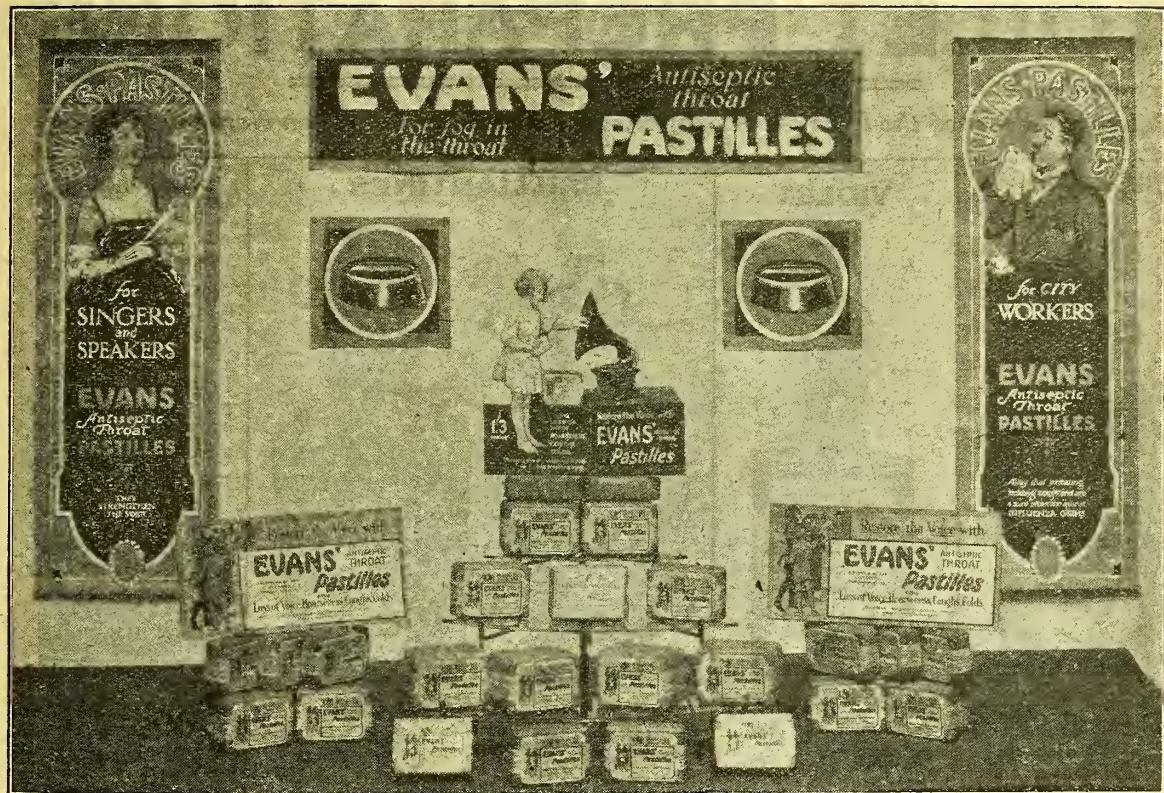


LONDON DEPOT
Plantain Place,
Crosby Row,
Boro. S.E.
Phone. HOP. 2668.

MANUFACTURING CHEMISTS
Makers of Lozenges, Pastilles & Compressed Tablets
CREDITON. DEVON.

Telephone
CREDITON 10
...
Telegrams
JACKSON, CREDITON

THIS WINDOW ARRAY



WILL PAY TO DISPLAY!

FOR AN ORDER OF 12 DOZ. TINS, WHICH MAY BE TAKEN IN 2 DELIVERIES, WE GIVE 5% DISCOUNT AND ALSO 13 TO THE DOZEN. OVER AND ABOVE THAT WE GIVE YOU A BEAUTIFUL WINDOW DISPLAY WHICH THE ABOVE PICTURE REPRESENTS. ASK OUR REPRESENTATIVE TO GIVE YOU DETAILS OF OUR ATTRACTIVE CONDITIONS FOR 6 DOZ. AND 3 DOZ. LOTS.

Evans

EVANS SONS LEESCHER & WEBB, LTD.

LIVERPOOL

New York

LONDON

HOVENDEN'S TOILET PREPARATIONS

Below are a few of the lines we are supplying with Customer's Own Name & Address.

TOILET PARAFFIN



No. 4870. (About 4oz.)
8/6 doz.
No. 4871 (About 5½oz.)
10/6 doz.

VIOLET OIL



No. 4776. (About 4oz.)
(as illus.), 23/- doz.
No. 4804. (2oz.) Stop-
pered botts., 13/6 doz.

BRILLIANTINES



No. 4863.
(About 2½oz.)
Non-Sep., .
6/6 doz.

No. 4869.
(About 2oz.)
With Spirit,
7/- doz.

HAIR CREAM



No. 4820. (About 6oz.)
10/6 doz.
Supplied Non Greasy and
Greasy. When ordering, please
state which is required.

MEDICATED TAR SOAP

A SALEABLE LINE.

Highly recommended for irritation of
the Scalp,
Dandruff, &c.



No. 4755. Each in carton (as illus.),
10/6 doz.



Any of these can be supplied
with Name & Address printed
free on labels in 3-doz. lots.

HENNA SHAMPOO POWDER



No. 4618/5. 5 packets in cartons - 8/6 doz.
No. 4618/7. 7 packets in cartons - 11/- ,,

EMULSIFIED COCOA NUT OIL

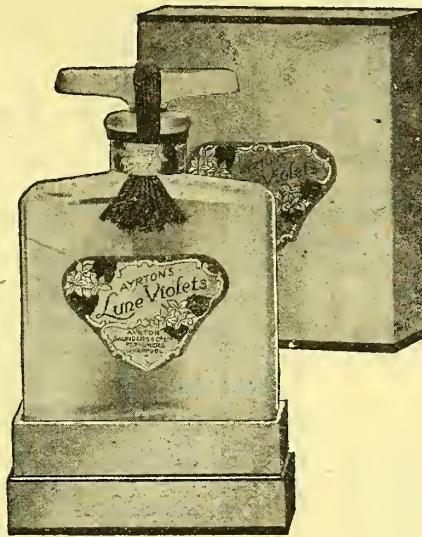


No. 4801. (About 4oz.)
7/3 doz.

R. HOVENDEN & SONS, Ltd.

29, 30, 31, 32 and 33 BERNERS ST., OXFORD ST., W.1.
and 89, 91, 93 and 95 CITY ROAD, FINSBURY, E.C.1

Tel.: Clerkenwell 7601, 7602, 7603 (3 lines). Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.1 Tel.: Museum 2810 (3 lines).



*"Full many a Flower is born to blush unseen
And waste its sweetness on the desert air."*

Lune Violets Perfume

preserves the delicate, entrancing perfume which is the wonder of the Lune Valley Blossoms, and the delight of those who know this home of the famous flower.

Beautifully presented in stoppered bottles of distinctive design, each in fancy case

1 oz.....per doz. 36/-

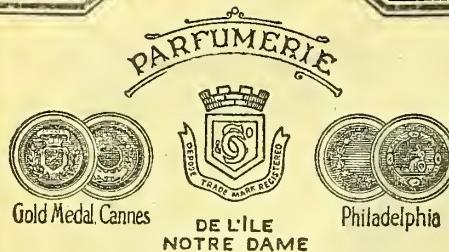
$\frac{1}{2}$ oz.....per doz. 22/6

Sample size — suitable for the handbag.
Packed 1 doz. in attractive outer, per doz. 4/6

A FULL RANGE OF FINE PERFUMERY, PACKED AND IN BULK, IS LISTED ON PAGE 72 OF OUR QUARTERLY PRICE LIST AND ILLUSTRATED ON PAGES 285 & 286 OF OUR GENERAL ILLUSTRATED LIST.

**AYRTON, SAUNDERS
& CO., LTD.**

**"Everything Pharmaceutical"
LIVERPOOL, ENG.**



IN view of the very large demand we have already had, for the Christmas trade, for our Globe-Wicker, Watch-shape, and French flask series of

SCOTCH HEATHER DEVON LILIES DEVON VIOLETS

and the possible delay in getting over fresh consignments of containers, we advise our customers to place their orders at once in order to prevent disappointment.

The Perfumes are of the best.
The "get-up" is beyond criticism.
The prices are highly competitive.

Artistic show-cards of a novel kind, each bearing a spray of artificial flowers corresponding to the perfumes, are sent with each consignment.

Rustic baskets of artificial flowers, etc., can also be supplied for window displays.

Also

LILAS LILAS

The last word in Lilac Perfumes.

PERSIAN GARDEN SCENTS OF ARABY FLEUR D'AMOUR

etc., etc.

SPURWAY ET CIE.
LIMITED.

89 GREAT EASTERN ST., LONDON, E.C.2

Telegrams: "Neroli, London."
Telephone: Bishopsgate 1372.

Factories & Distilleries: Cannes-Grasse, Riviera.
Technical Laboratories: Paris.

NEW YORK. LEIPZIG. KINGSTON (ONTARIO).

A BARGAIN FOR CHEMISTS who reply quickly

REMARKABLE OFFER OF LIQUIDATION STOCK
of Icılma, Legrands, Nilde, Pivert's
and Bourjois Ashes of Roses

FACE POWDERS

at prices which cannot be repeated, to be sold in Case lots as follow:

12
DOZEN
Face
Powders
FOR
60/-

No. 1 Case contains 12 doz.
Face Powders for **60/-**

No. 2 Case contains 24 doz.
Assorted for **117/-**

No. 3 Case contains 36 doz.
Assorted for **28/15/-**

No. 35 Case contains 36 doz.
Face Powders and 18 doz. Evan
Williams' Henna 4d., Parson's
3d., Icılma 3d. & Amami 6d. Shampoo Powders for **£10**

Every box of Face Powder in perfect condition.
No soiled boxes.

Special Note: ONLY the following well-known and widely advertised lines are in each case:

Icılma, 1/3 size. Naturelle and Creme.
Legrands, 9d., 1/- & 1/3. Naturelle, Rose and Creme.
Poudre Nilde 1/- Sifter. All shades.
Pivert's 9d., 1/- & 1/6. Naturelle.
Bourjois Ashes of Roses, 1/6 sets, containing Perfume and Powder.

ONLY A FEW CASES FOR DISPOSAL, SO ORDER BY RETURN

Cheques and Postal Orders to be crossed and made payable to
THE NOTTINGHAM PERFUMERY CO. GOOSE GATE NOTTINGHAM

Lin Camph, B.P. Finest Cream Olive Oil and all Pharmaceutical Preparations

JOSEPH BROOKS & CO., LTD.,
Wholesale Druggists,

42 SHUDEHILL - - MANCHESTER

IT WILL PAY YOU

to study our prices. We specialize in your requirements and have a large variety of suitable lines at lowest prices, viz.—

TOOTH BRUSHES, White Handle, Waxed Backs, 3/- and 4/- per dozen.

TOOTH BRUSHES, Coloured Celluloid Handles, stamped "Hygiene," 3/6 per dozen.

PRO-PHY-LAC-TIC TOOTH BRUSHES, each in a carton, 12/- per dozen.

FRENCH SHAVING BRUSHES, Guaranteed Free from Anthrax, with Wood or Bone Handles, in large variety, 3/6, 4/-, 7/6, 12/-, 18/- and 27/- per dozen.

We can also supply Genuine Gillette Blades, and all leading makes of Safety Razors and Blades. Let us quote you. Our prices are unbeatable. Terms: Nett Cash with Order or goods sent against approved refs.

L. FRANKENBERG, 15 Stoney Lane, Houndsditch, London, E.1. Phone: Avenue 1170.



Why it pays Chemists to stock “DISTOL” OTTOS.

The perfumery proposition where highest quality and competitive prices meet on equal terms.

¶ Because you save factory wages—because you avoid paying for the goodwill of someone else's branded name—because you need keep only a “hand-to-mouth” supply of S.V.R.—because you cut out the scent manufacturers' profit on bottles, ribbons, capping, wages, etc.—because you can make genuine spirit perfume at less than the price you pay for perfumes made from substitute alcohols—these are some of the reasons why it pays and pays well to be a “Distolist.”

¶ The above advantages place the Chemist in an impregnable position where perfumery is concerned, but they only do so because of the high quality of “Distols” which enables him to offer perfumes equal to the best branded lines.

¶ It is the height of short-sightedness to try and win back perfumery sales by offering a cheap perfume at a cheap price, but “Distols” enable you to offer a really good perfume at a cheap price which is the true solution of the present difficult position.

There are 45 “Distol” Ottos costing 7/6 per oz. Ask for samples of any six.



A/472

THOMAS KERFOOT & CO LTD
BARDSTLE VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

parfums d'orsay

PARIS.



No. O13 GANIKA D'ORSAY.
Retail - - - 17/- each.

EXTRATS :

FLEUR DE FRANCE
CHEVALIER D'ORSAY
ROSE D'ORSAY
CHYPRE D'ORSAY
GANIKA D'ORSAY

SOLE AGENTS FOR GREAT BRITAIN:

S. NAMIAS' SONS, 54 George St., Baker St., W.1.
Telegrams: "CAMASUSTA, LONDON."

Phone: Mayfair 3925.

IRELAND:

W. J. RANKIN & SON, 11 Waring St., Belfast.
Phone - - - Belfast 3211.

DODGE & OLcott CO.,

20 MARK LANE,
LONDON, E.C.3.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT,
SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

Phone—
ROYAL 3843.

Telegrams—
"EGDARF, FEN, LONDON."

Something entirely new !

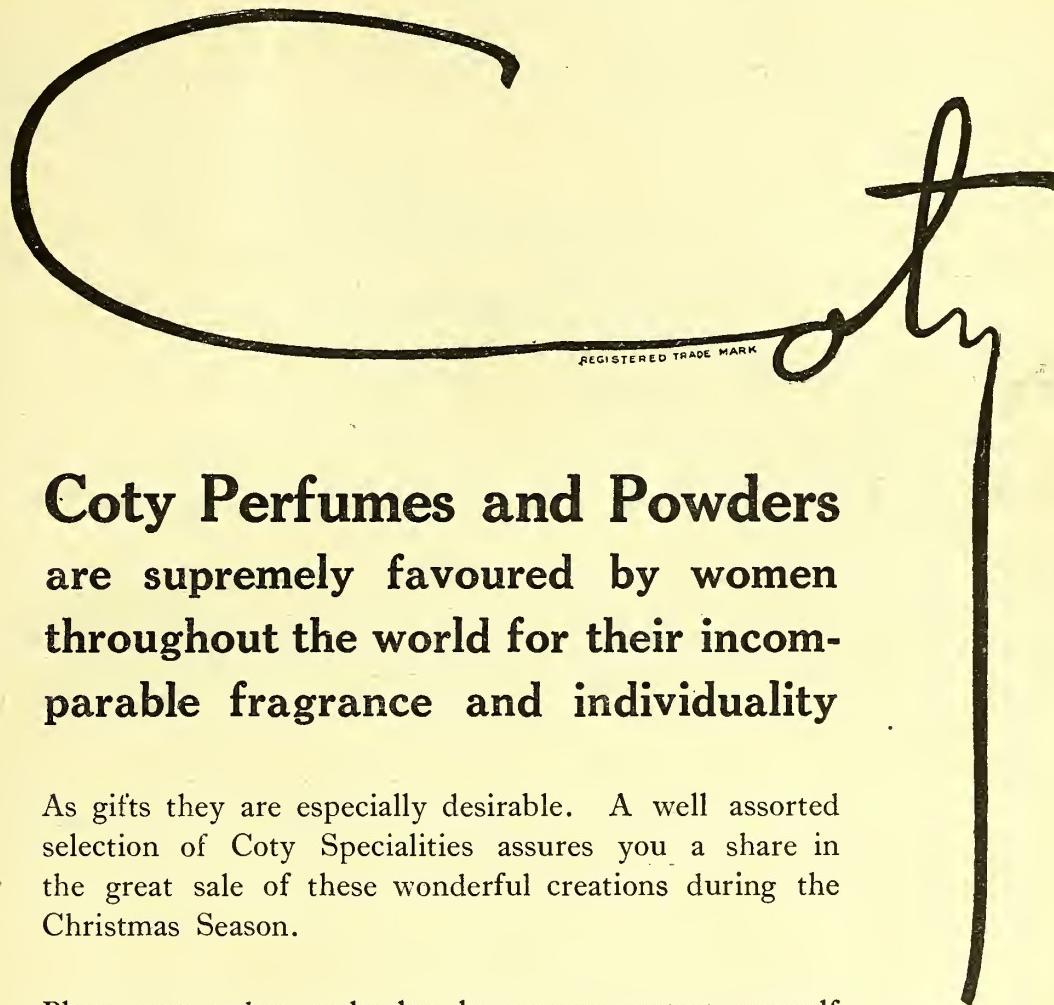
A $3\frac{1}{2}$ ounce tablet packed in 1 gross boxes, cases free and carriage paid, for 45/- gross.

A high-class OWN-NAME SOAP wrapped in attractive style.

A separate design reserved for each buyer in one town.

Write us for sample tablet and book of wrappers — or ask our travellers to show them. —

R. F. WHITE & CO., LTD., THE NON-COMBINE HOUSE, 34 Victoria Street, S.W.1



Coty Perfumes and Powders
are supremely favoured by women
throughout the world for their incom-
parable fragrance and individuality

As gifts they are especially desirable. A well assorted selection of Coty Specialities assures you a share in the great sale of these wonderful creations during the Christmas Season.

Place your orders early, but be sure to protect yourself and your customers with the Coty guarantee of quality by obtaining your Coty supplies exclusively from us or from the *recognised established* Wholesale Houses authorised to deal in our Specialities.

**NOW ON
P.A.T.A.**

*Price List will be mailed to
Members of the Trade upon
written application.*

Telephone:
MAYFAIR
3795.

Telegrams:
PARICOTY
WESDO
LONDON.

COTY (ENGLAND) LTD.
"Parfums de Luxe"
WALMAR HOUSE, 298, REGENT STREET.
LONDON. W. 1.

The Tooth Brush in the YELLOW Box



To get the Pro-phy-lac-tic Tooth Brush, originated and made by the Pro-phy-lac-tic Brush Company, of Florence, Massachusetts, U.S.A., since 1880, look for the hyphenated word Pro-phy-lac-tic stamped on the handle of the brush.

The sanitary **YELLOW BOX** identifies to an ever-growing number of users "the only tooth brush that really cleans the teeth"—the Pro-phy-lac-tic, as manufactured by the Pro-phy-lac-tic Brush Co., of Florence, Mass., U.S.A.

Our continuous advertising to over 4,000,000 readers of the Press is creating more customers for this high-class tooth brush every day. Don't fail to make some of those new customers yours. Display the

Pro-phy-lac-tic
Tooth Brush

GENUINE only in YELLOW Box

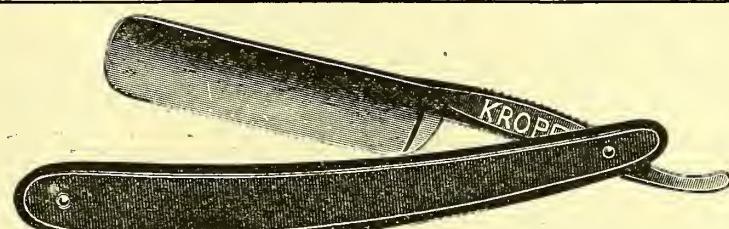
In 3 sizes—adult's, youth's and child's; in 3 textures of bristles—hard, medium, or soft; one quality only—each in its individual YELLOW Box, with hook for hanging.

Price to the Public - - - **2/6**
To the Retailer—a Full Trade Profit.

SOLD THROUGH THE WHOLESALE HOUSES ONLY.
Wm. E. PECK & CO. Inc., 31 Bartholomew Close, London, E.C.1

THE SHAVER'S LUXURIES**KROPP RAZOR**

ALWAYS
READY
FOR USE



MADE AND GROUND IN SHEFFIELD, ENGLAND.

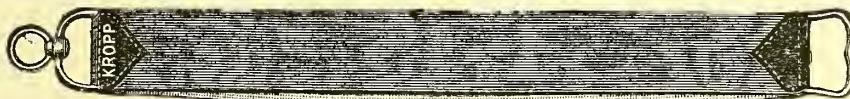
EACH
RAZOR IN
A CASE

NO RAZOR GENUINE UNLESS STAMPED

ON ONE SIDE:—"KROPP."

REVERSE SIDE:—"MADE AND GROUND IN SHEFFIELD, ENG."

Black Handles, 78/- doz.; Xylonite Handles, 90/- doz.; Ivory Handles, 150/- doz. nett.

KROPP DUPLEX HANGING STROP

Specially Prepared Canvas and Leather. 42/- per doz. nett.

KROPP CUSHION STROP

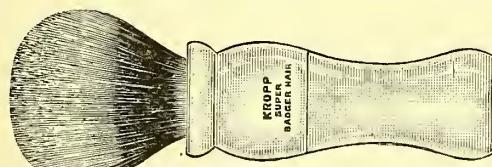
90/- per doz. nett.

KROPP DUPLEX RAZOR STROP

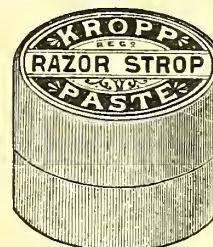
108/- per doz. nett.

KROPP SUPER BADGER HAIR SHAVING BRUSH

Made of the best Super Badger Hair and Finest White Bone. The pattern is the best—the cup prevents soap running down the handle of brush. The manufacture is the very highest class.



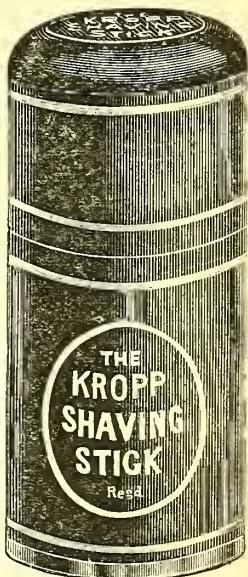
No. 0, 84/-; No. 1, 126/-; No. 2, 198/-; No. 3, 288/-
per doz. nett.



4/9
per
doz.
nett.

KROPP RAZOR STROP PASTE

For preserving the Strop, and imparting a keen edge to the Razor. In METAL BOXES, as illustration.

KROPP SHAVING SOAP

This Soap is especially manufactured for shaving. It is pure soap of the finest quality, and is agreeably perfumed. It produces a good creamy lather, softens the beard, and is cool and seductive to the skin.

7/9 per doz. nett.

OSBORNE, GARRETT & CO., LTD.

Wholesale Depot : - - 51/54 FRITH STREET, SOHO, LONDON, W.1

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz.	Selling Price to Retailer P.A.T.A.
PILENTA SOAP ...	10/-	1/-
A complexion soap.		
PROLACTUM ...	10/-	1/-
For the lips.		
PARSIDIUM JELLY ...	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE		
BLOSSOM ...	22/6	2/6
A dressing cream.		
BORANIUM ...	22/6	2/6
A hair tonic.		
CLEMINITE ...	22/6	2/6
For a face lotion.		
COLLIANDUM ...	22/6	2/6
For a face tint.		
PERGOL ...	22/6	2/6
A deodorant.		
TEKKO PASTE ...	22/6	2/6
Camphor cream.		
STALLAX ...	22/6	2/6
For a shampoo.		
JETTALINE ...	31/6	3/6
For clearing the skin.		
PHEMINOL ...	36/-	4/-
A depilatory.		
MENNALINE ...	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ...	{ 18/- A face cream. 31/6	2/- 3/6
STYMPOL ...	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ...	22/6	2/6
Hair-curling fluid.		
BARSYDE ...	22/6	2/6
Dandruff eradicator.		
TAMMALITE ...	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ...	31/6	3/6
To check excessive perspiration locally.		
BICROLIUM ...	22/6	2/6
For whitening the hands.		
COCONOIDS ...	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

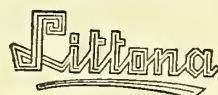
CLYNOL BERRIES ...	36/- For obesity.	4/- 6/6
SOFT PALERIUM ...	45/- For wrinkles.	5/-
LIQUID NAIL POLISH ...	10/- Brilliant and lasting.	1/-

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
 South Africa: LENNON Ltd., Cape Town, etc.
 SIVE BROS. & KARNOVSKY, Johannesburg.
 India: FRAMJEE & SON, Bombay.
 A. L. CHOUDRY, Calcutta.
 New Zealand: SHARLAND & CO., Auckland and Wellington.
 South America: DEARBORN (South America) Ltd., Calla Salta 264, Buenos Aires.
 Straits Settlements & Federated Malay States: MEDICAL HALL, Ltd., Singapore.

A new Vanishing or "after shave" Cream



Vanishing Cream

has not the usual disadvantages of face creams as it is *not sticky* and does not leave a sticky feeling.

It is *rapidly absorbed* by the skin.

It is only *slightly perfumed* and is very economical in use.

It leaves the skin with that soft, velvety surface so much desired and is very refreshing.

These merits are quickly being appreciated by the public.

It always pays to stock the best article of its kind. Retails: Tubes, 1/3 each. Pots, 2/- each.

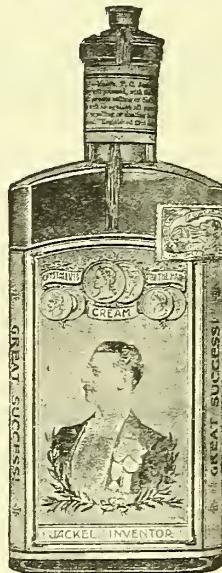
May we send you a small trial supply?
Manufactured by the proprietors of "LITTO" hair preparations.

LITTO LABORATORIES
2 Newington Green, LONDON, N.1

"Jackel's Cream"

(without Grease)
for THE HAIR

Sold Everywhere
Established 1883.



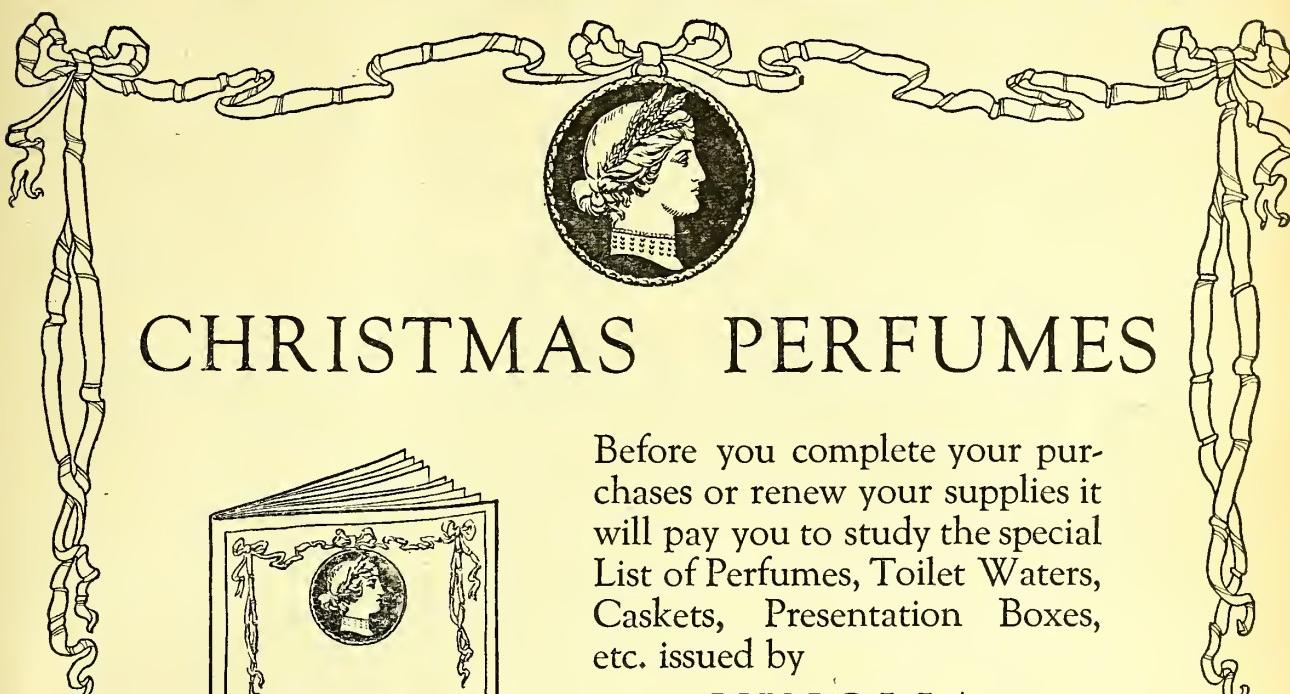
"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headwear. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

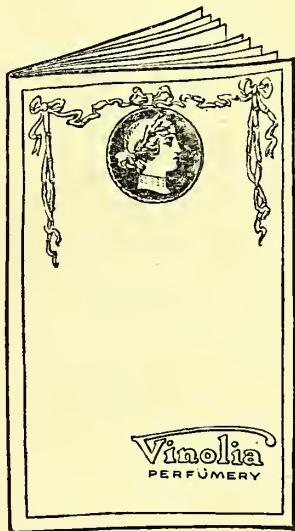
Jackel et Cie (of Paris) Ltd.

Sauviehall Street,
GLASGOW.

CRYSTALLISED
7 oz. CREAM 10 oz
Trade Mark attached to each
bottle.



CHRISTMAS PERFUMES



Before you complete your purchases or renew your supplies it will pay you to study the special List of Perfumes, Toilet Waters, Caskets, Presentation Boxes, etc. issued by

VINOLIA

Perfumes of all types and at all prices but only one quality—the best—ranging from test tubes retailing at 1/3d. to plain cut or tinted stoppered bottles up to 90/- are available.

Support British Industry by encouraging your customers to confine their Christmas gifts to British-made goods. You can sell them the best by displaying and pushing Vinolia. Write for details of special terms or ask our representative to call.

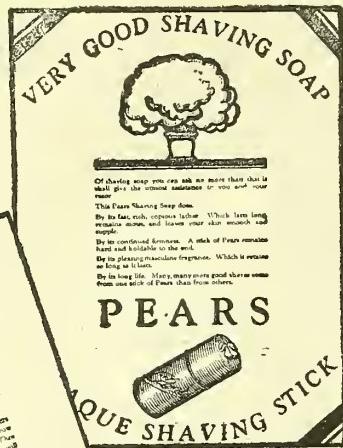
SPECIAL LONDON SHOWROOM — From October 13th onwards we are having a special display of money making lines at Lever House. We shall be glad to see you if you will call when in town. Make a special note of it.

Vinolia

LEVER HOUSE, BLACKFRIARS, LONDON, E.C.4.

Laboratories—Bebington, Cheshire

J These are two typical advertisements from the new Pears' Soap campaign.



A new note in advertising

Few advertising campaigns have created more interest than the present campaign selling Pears' Shaving Soap.

From the two examples illustrated it will be seen that an entirely new note has been struck. Wherever these advertisements appear they attract attention and evoke comment, while increased sales testify plainly to their effectiveness.

They are selling Pears' Shaving Stick—for someone. To give this line a good showing on shelves, counter and window is to ensure these advertisements working for you.

PEAR S SHAVING SOAP



The Quality Note in **PUFFS**

Buy your puffs from the leading House—we make the leading lines. Spencer Puffs are sellers. Attractively made up, boxed and labelled. Your Christmas trade is assured—with Spencer Puffs.

SPENCER BROTHERS

Specialists in Fancy Powder Puffs for the Wholesale and Shipping trades

17 Farringdon Avenue, LONDON, E.C.4
Telephone - Holborn 3069.

A Beauty Aid for Women which does not compete with any existing line you stock.



soft all-rubber Curlers are particularly suitable for
BOBBED HAIR

because they curl the extreme ends of the hair.

Attractive show cards, counter display boxes and other sales matter with every order.

Artifex Curlers are being stocked by a rapidly increasing number of chemists. For your share of the business get particulars of this quick-selling, well-advertised line from your wholesaler, or, if you prefer, write in first instance to

"ARTIFEX" DEPARTMENT,

The MERKHAM TRADING LTD.

Bush House ∴ Aldwych ∴ W.C.2

The Wonderful

SILKODONO

Stand at Wembley



CAN YOU AFFORD TO MISS THE OPPORTUNITY

which this tremendous publicity gives to you? SILKODONO is the only Hair Remedy on show at the Wembley Exhibition; it is the most talked of thing of its kind. Splendid sales can be assured if you stock SILKODONO now. Write for advertising aids and full particulars.

SHEER Beauty cannot be portrayed by the means at our disposal. It is impossible to reproduce here the wonderful light and gorgeous colour scheme which has made the SILKODONO exhibit the greatest attraction of its kind at Wembley.



EVERY DAY since the British Empire Exhibition opened, many thousands of sight-seers have flocked round this beautiful display. Interested spectators have spoken of the advertisements they have seen: most of them have carried away FREE SAMPLES and leaflets explaining the virtue of SILKODONO—the Magic Hair Remedy.

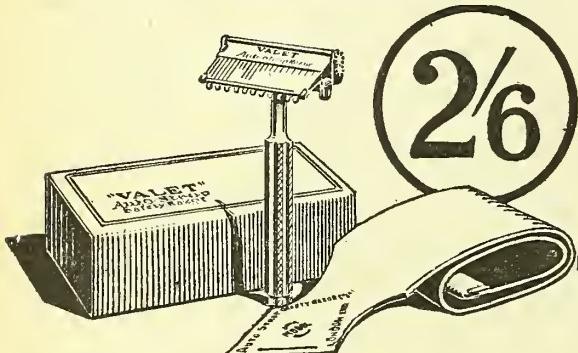
SILK'S TOILET CO., 8 & 9 Red Lion St., High Holborn, W.C.1

WONDERFUL NEWS FOR VALET DEALERS

76% Profit

AND EVER INCREASING SALES

"VALET" Auto Strop Safety Razor



2/6

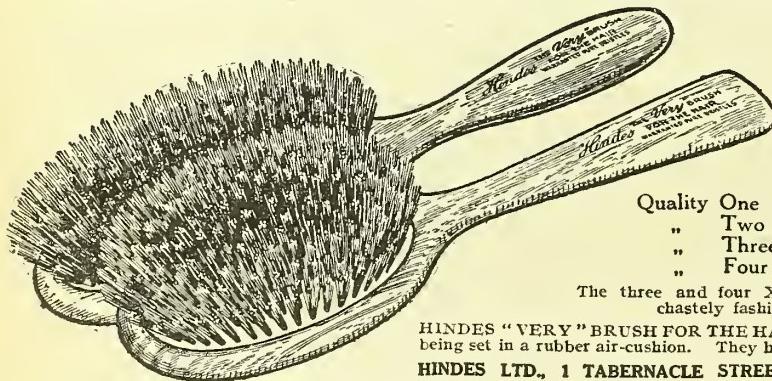
The scheme is simple. For every 3 doz. of the popular 2/6 Razors ordered, a Guinea Razor is given FREE—but only from Oct. 1 to Nov. 1.

Thousands of these are being sold and thousands more will surely be sold before Xmas.

1	Guinea Razor free with 3 Doz.
2	" " " " " 6 "
4	" " " " " 12 "
8	" (The Limit) " " 24 "

Prompt Deliveries, Efficient Service, from:—

WARDS of WARRINGTON



HINDES “VERY” HAIR BRUSH

Quality One X	Sold at 7/6d. each.	TRADE PRICE
" Two XX	" 10/6d. "	
" Three XXX	" 15/- "	
" Four XXXX	" 18/6d. "	

The three and four XXXX grade is made in Ebony or Rosewood chastely fashioned in both oval and circular bodies.

HINDES “VERY” BRUSH FOR THE HAIR is guaranteed pure bristles, the multiple tufts being set in a rubber air-cushion. They have been known to the trade for nearly 40 years.

HINDES LTD., 1 TABERNACLE STREET, LONDON, E.C. :: Works: BIRMINGHAM.

Telephone: Axminster 5.

Telegrams: “Coate, Axminster.”

COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon.

Estab. 1847.

Manufacturers of Super British Brushes

Our Special “PROPHYLACTIC” Tooth Brushes—

3 row Hard, Medium, Soft, Yellow Hair @	... ... ...	16/- per dozen
4 "	... ... ...	18/- "

Orders for one gross supplied in Cartons with customer's name and address free.
Every Brush Guaranteed. British made by British Labour. Send for our present list of prices.



Q You will probably have received your copy of "BRISTLES," our bright and informative House Organ, but if not, you should send your name and address and a copy will be forwarded by return, together with Special Supplement.

BRISTLES!



DISTINCTION! The above House Mark stands for a series of high-grade Toilet Brushware manufactured, marketed, and presented to conform to modern ideals and standards, and to create new channels of profitable business.



Hair Brushes, Nail Brushes, Shaving Brushes and Tooth Brushes, are identified by this mark and guarantee on their handles. Generous advertising is being planned to endorse their good name.

REPRESENTATIVES WANTED to handle this really good series of High-grade Brushes. Write, in confidence, giving full particulars of past experience, age, and qualifications.

**HENDERSON BROS & CO LTD.
"HYGEX" BRUSH WORKS
20 TYNDALE PLACE, UPPER STREET
LONDON
N.1**

Telephone : North 3261
Telegrams : Accorditor, Nordo, London.





RETAIL PRICES

No. 1						1/-
" 2						1/9
" 3						2/6
" 4						3/9
" 4R				5/-	{} Bath	
" 5				7/6	Sizes	

All SORBO lines promptly despatched on receipt of order.

STOCK SORBO— the Sponge with the Big Selling Story.

WHEN you can say of a sponge that it outlasts four ordinary sponges while costing less than one ; that its soft springy friction is unrivalled in promoting a healthy skin and fresh complexion and that *soap improves it*, you have got three big selling arguments which must—and do—prove irresistible.

Show Sorbo Sponges in your window, and get your share of the trade.

Sorbo sponge

THE MOST ABSORBENT RUBBER SPONGE
SORBO RUBBER-SPONGE PRODUCTS, LTD.

Sorbo Works :: Woking :: Surrey
Telegrams : Sorbo, Woking. Telephone : Woking 666.

Assist British industry by recommending the 'WATTS' Sheffield-made Safety Razor Blade, the blade of super-keenness.



3/6 per doz.
allowing
50% PROFIT
on cost for
the dealer.

Sole Manufacturers : JOHN WATTS,
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Established over 150 years.

A counter display will help.

A user writes : "Can't understand people buying foreign blades when such as yours are obtainable."

12 Perfect Blades in Every Dozen.

For Gillette-Type and Autostrop-type holders

"TANK" STROPPER FOR GILLETTE BLADES
WE HAVE BEEN APPOINTED SOLE CONCESSIONAIRES FOR BRITISH ISLES & FREE STATE.
VERY SPECIAL FACTORS' TERMS
WARDS OF WARRINGTON

The Evan Williams

ALWAYS IN GREAT DEMAND.
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 14/15 Union St., W.1.

EVAN WILLIAMS SHAMPOO

TRITONA

THE EFFECTIVE PASTE FOR HARD SKIN.

Prepared from finest ingredients. Does not produce any drawing sensation in the foot. Has satisfied hundreds of users. It is on the P.A.T.A. and carries a good profit. SEND A TRIAL ORDER. Wholesale 24/-; Retail at 4d. per box.

Special Terms to Wholesale Distributors.

Enquiries invited.

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Advertised daily in all London daily papers
Tatcho-tone
PRICES :
8d. Trial phial,
per doz. 5/9
4/6 Large size,
per doz. 42/-
TATCHO-TONE CO., 5 Gt. Queen St., Kingsway, W.C.

There is money for You in this

GET YOUR SHARE OF THE "LUTON" PROFITS

For the discerning chemist who carries a representative stock of "Luton" Straw Hat Dyes, there is good business to be done all the year round. "Luton" Straw Hat Dyes are a Whitaker product, and as the firm was founded in 1878 and has ever since specialised in the production of Household Dyes, there is little doubt that this accumulated experience is reflected in the goods offered to-day.

"LUTON" STRAW HAT DYES

are attractively packed and can easily be used for artistic displays. May be had in dull or glossy series. Consistently advertised in the leading newspapers and periodicals of the country.

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Recognised as the finest cold water dye in the world for dyeing delicate and costly fabrics. A certain seller.

"LUTON" FABRIC DYES

The best hot water dyes for all materials, giving perfect results with the minimum of trouble. As with all Whitaker products they show a good profit.

Entirely British—British Enterprise—British Labour—British Capital.
All Cases and Containers Free. Special Non-Inflammable Series supplied for Export.

If you are not already stocking Whitaker goods write for further information, prices, patterns, etc.

WHITAKER & CO., Luton Dye Works, KENDAL.

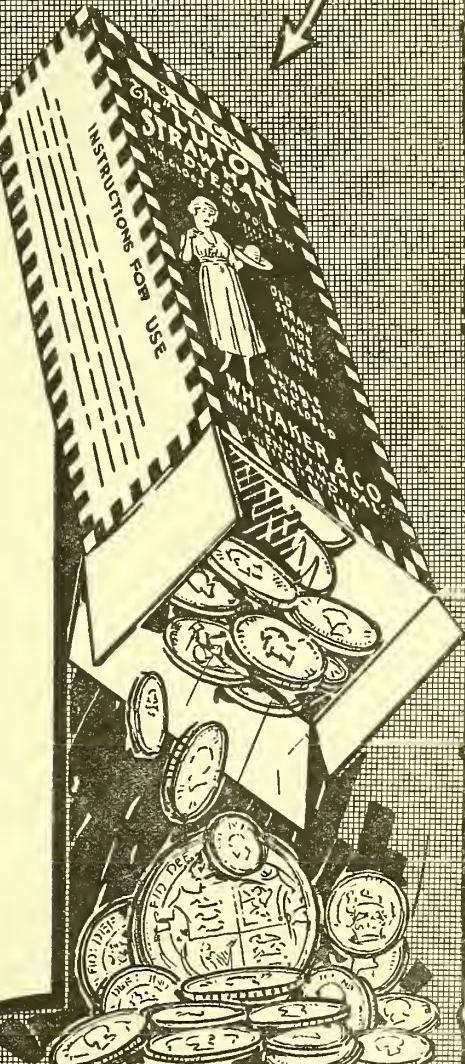
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Telegrams: "Dullette, Kendal." Telephone: 214.

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Telephone: Gerrard 1774.

ESTABLISHED 1878.

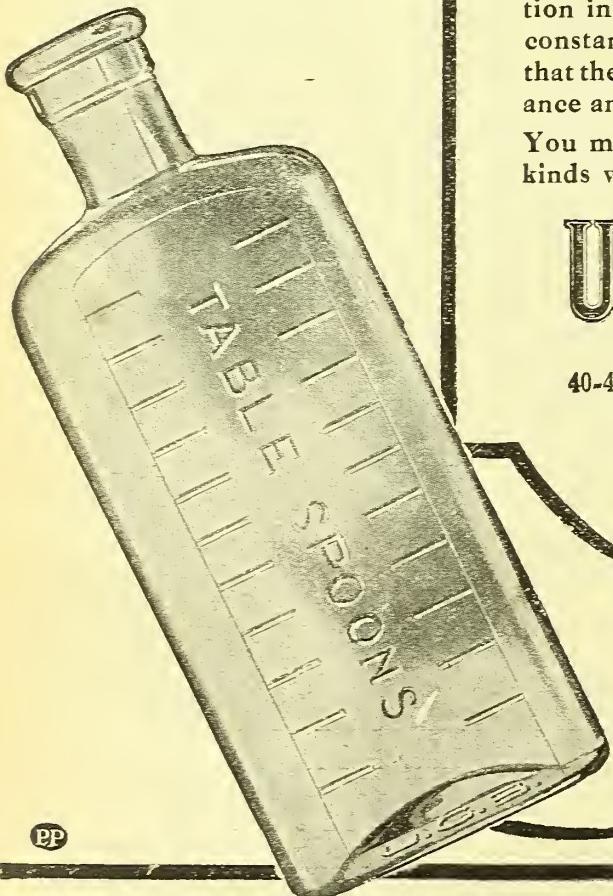


The 'LUTON' STRAW HAT DYES



USE GOOD BOTTLES

We are exhibiting
a representative
range of our products at Stand No.
M438, Palace of
Industry, British
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"**CONSISTENCY**" is a characteristic of every U.G.B. Bottle manufactured for the Chemist, Druggist, or Medical Profession. Only faultless materials are used, and the utmost care exercised throughout the manufacture.

The vital importance of accuracy in contents, corkage and graduations is the first consideration in the manufacture of U.G.B. Bottles, and constant watch and inspection is kept to ensure that these essentials are absolutely correct. Appearance and finish are always consistently good.

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Works:

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ham Harbour, Durham

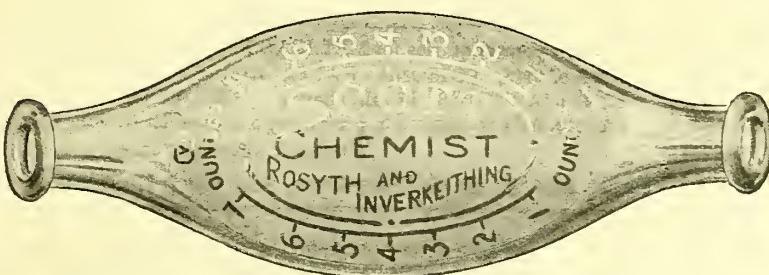
This mark on our bottles is the
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"BEST" FEEDER



Made in White Flint Glass free from Arsenic and Lead and of High Thermal Endurance, with CHEMISTS' NAME AND ADDRESS and the graduations in

SANDBLASTED LABEL

of excellent design and execution.

No particles of sour milk or impurity can lodge inside the **W** Best Feeder as the interior is absolutely smooth.

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who has it, because it is the most hygienic.

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who buys it, because it is the most easily cleansed and is not liable to crack with hot liquids.

BEST FOR THE CHEMIST

who sells it, because it bears his name and is a constant advertiser of his business in the family circle.

WOOD BROTHERS GLASS COMPANY, LTD.

(Established 1828)

BARNESLEY

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For **GLASS BOTTLES**

Write to

Fred^k Youldon

Formerly proprietor of E. YOULDON. Established 1840.

PORTLAND HOUSE,

73 Basinghall Street, LONDON, E.C.2.

Wires: "Youldon, Stock, London."

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I solicit your enquiries for MEDICAL FLATS in all sizes, plain and graduated, MEXICANS, POISONS, KALIS, LIMES, VIALS, CANNONS, OVALS, BRILLIANTINES, in all shapes. SCREW JARS, TABLET BOTTLES, etc. etc. All bottles used in perfumery and chemist trades. Special shapes made. Wholesale quantities only.

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12

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BOOKS PRINTED YOUR OWN MATTER**

Write NOW for Samples.

FRANK BOOR, CHEMISTS' PRINTER, CHAPEL-EN-LE-FRITH.

1/-

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The ideal transparent wrapping absolutely harmless, air and grease proof, as used by all the leading Perfumers, Soap Manufacturers, etc., etc., for wrapping Soap, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Puffs, Soothers, Tooth Brushes and all Articles of Toilet.

Cellophane can be had in sheets, all sizes and colours : also in the shape of **Bags, Discs, Envelopes**, printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods look better—keep better—sell better.

Cellophane protects, beautifies and adds the quality touch.

Cello-Dressings. The only sterilisable dressing unaffected by time heat and moisture.

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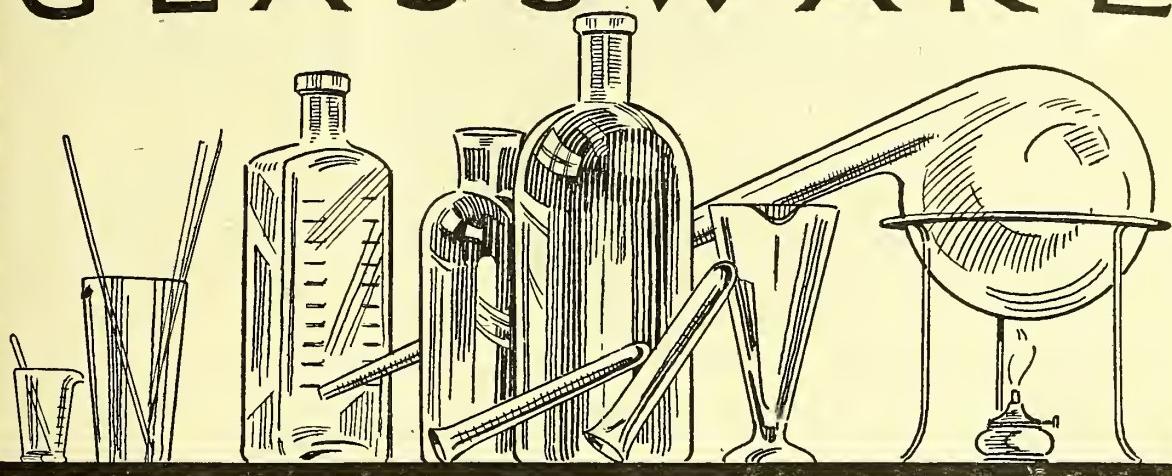
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**SELF - FIXING
BOTTLE CAPS**
Transparent, Opaque,
or Coloured.

From the Manufacturers :
**THE VISCOSE
DEVELOPMENT Co., Ltd.**
Viskap Works,
BROMLEY ■ KENT

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LABORATORY GLASS AT LOW CLEARANCE PRICES

We have large stocks of all kinds of Laboratory Glass which must be cleared owing to the warehouse accommodation being required. The quality is sound and they are being sold at low clearance prices. Limited space only allows of a few examples being given, but we can supply over a dozen kinds of Laboratory Glass at correspondingly low prices.

DROPPING BOTTLES (Amber).

	½-OZ.	1-OZ.	2-OZ.
Per gross	12/6	15/-	18/6

DROPPING BOTTLES (White).

	½-OZ.	1-OZ.	2-OZ.
Per gross	11/6	14/-	17/-

RETORTS (without stopper).

	125 cc.	250 cc.	500 cc.	1000 cc.
Per dozen	4/-	5/-	6/-	10/-

RETORTS (with stopper).

	250 cc.	200 cc.
Per dozen	7/6	11/6

SPHERICAL FUNNELS (with stoppers).

	50 cc.	100 cc.	250 cc.	500 cc.
Each	10d.	1/3	2/-	2/6

CYLINDRICAL SEP (without stopper).

	50 cc.	100 cc.
Each	9d.	1/-

CYLINDRICAL (with stopper).

	100 cc.	150 cc.	200 cc.
Each	1/3	1/6	2/-

MALE SYRINGES, Large quantity.

	½-OZ.	1-OZ.	2-OZ.
Per gross	15/-	18/6	15/-

GLASS TAPS, Burette. Per dozen, 6/-

	Two-Way	1 mm.	3 mm.
Per dozen	6/-	7/-	7/-

CYLINDRICAL MEASURES (grad. on foot)

	50 cc.	250 cc.	500 cc.	1000 cc.
Each	1/3	2/-	2/6	3/-

CYLINDRICAL MEASURES (grad. and stoppered).

	100 cc.	250 cc.	500 cc.	1000 cc.
Each	1/9	2/6	2/9	3/6

TEST TUBES.

	Cross.	Gross.
8 × 1½	..	12/6
7 × 1½	..	9/-
8 × 1½	..	10/-
7 × ¾	..	8/-
6 × ½	..	6/-
7 × ¼	..	8/-

Nests of 6 tubes, 4d. nest

Send your enquiries to-day, all Orders given immediate attention.

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CHARLTON PLACE
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It is claimed that no modern medicinal chemical, Drug, Organotherapy agent or Vaccine, worthy of inclusion, has been omitted.

The handy little volume, containing 1163 plus xxxviii pp., should find a place in every Consulting Room, Pharmacy and Laboratory, as a reference book in matters appertaining to the therapeutic use of drugs and chemicals.

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It is only possible to give an outline of some of the new information.

NEW CHEMICALS, DRUGS, AND METHODS OF TREATMENT.

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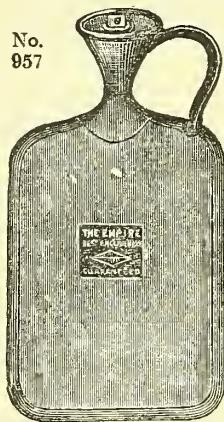
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One Quality only—THE BEST.

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"Empire" brand								
heavy make,								
grey rubber, each	3	0	3	2	3	4	3	6
red "	3	8	4	0	4	3	4	6

Each bottle in a strong paper bag with directions for use.

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each	1	2	1	4	1	6	1	7
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colours (washable)	1	3	1	5	1	7	1	9

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6-in. by 8-in.	6-in. by 10-in.	8-in. by 10-in.
2/9	3/-	3/6
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4/-	4/6	

3-doz. lots assorted, less 5 per cent.

DISPENSING BOTTLES

3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
13/-		15/-	20/-	21/-	25/-	28/-	

5-gross assorted cases free, carriage paid up to 100 miles.

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(MEDICATED)
ARE NOW ON THE P.A.T.A.

RETAIL PRICE - 9d.

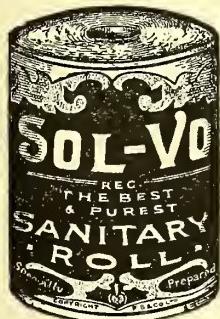
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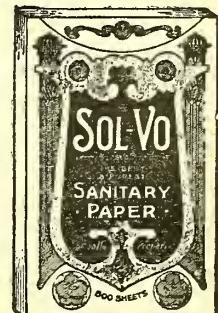


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THE BEST & PUREST
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Three dozen Rolls ..	7/- net.	Three dozen Packets ..	10/- net.
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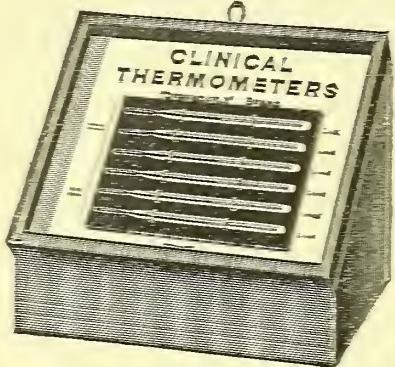
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Plain Index	10 6	11 9	13 -
Lens Front	11 -	12 6	13 9

"CLINBRITIC" SPECIAL EASY-SET.

	2 min.	1 min.	$\frac{1}{2}$ min.
Plain Index	12 -	13 3	14 6
Lens Front	12 6	14 -	15 3

Each in N.P. metal case.

THE LENS FRONTED INSTRUMENTS HAVE A SPECIAL REGISTERED COLUMN INDICATOR IN RED.

Can also be supplied each tested, passed and marked by the National Physical Laboratory, with their note of Guarantee, at an extra cost of 5d. each or 4/- per dozen.

Customer's own name free on not less than 1 dozen of a kind.

5% monthly a.c. Carriage and packing free on 1 dozen or over.

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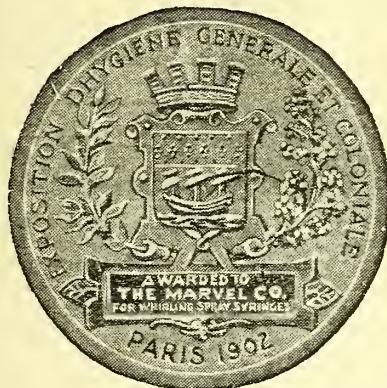


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Gold Medal Awarded, Paris, 1902,
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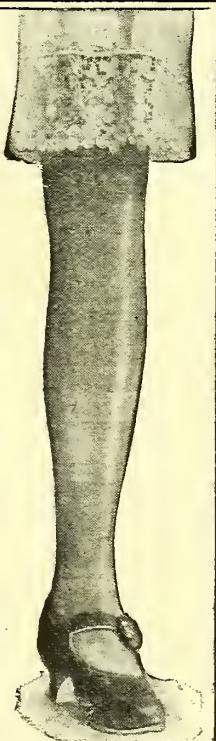
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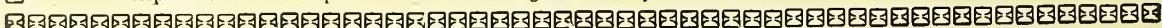
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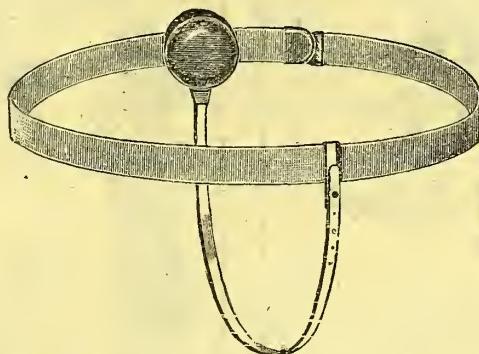
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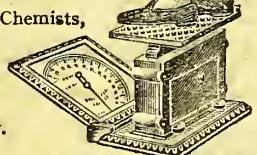
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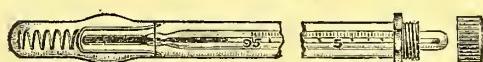
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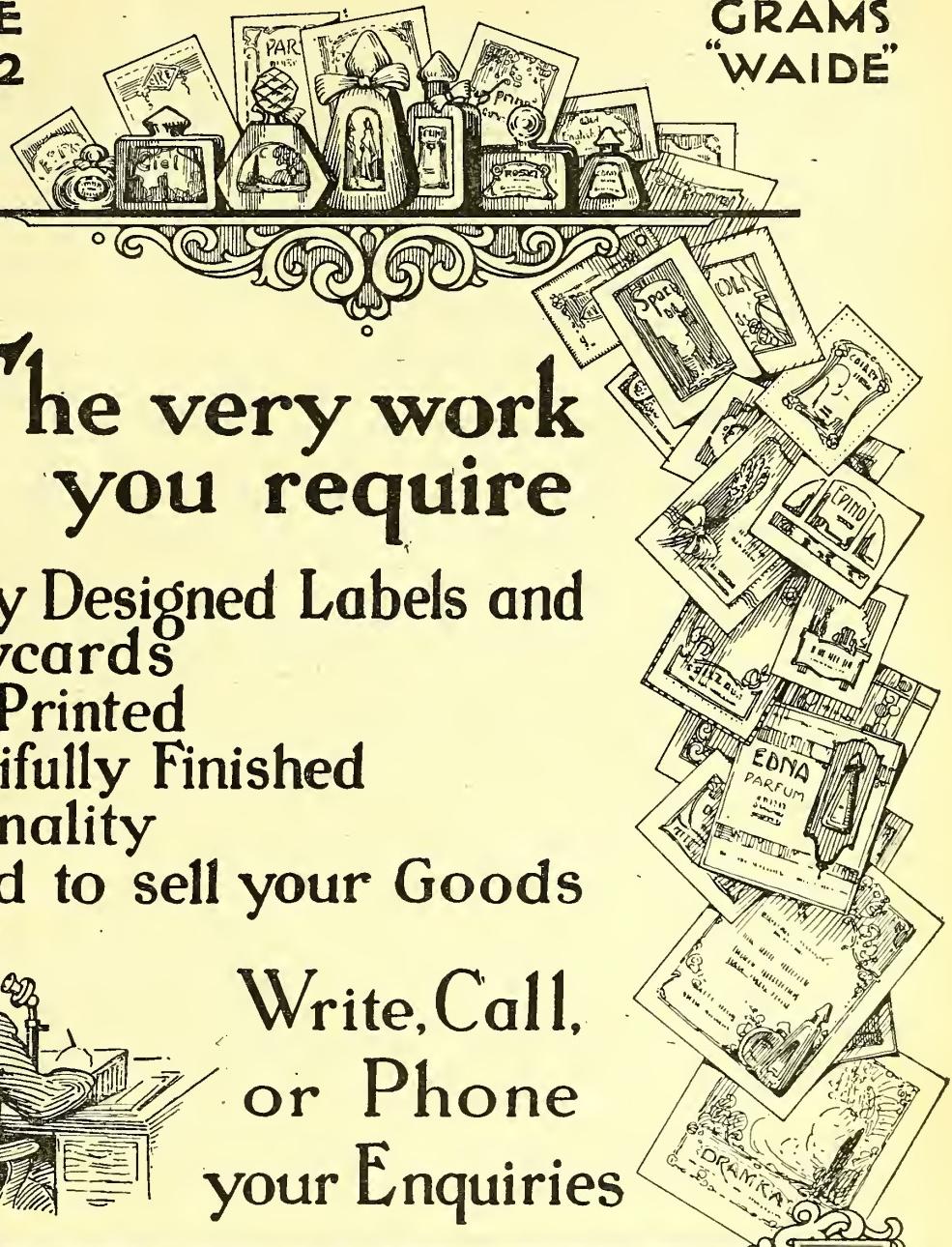
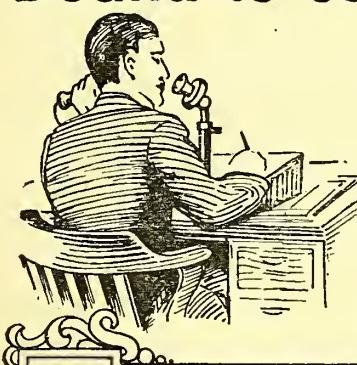
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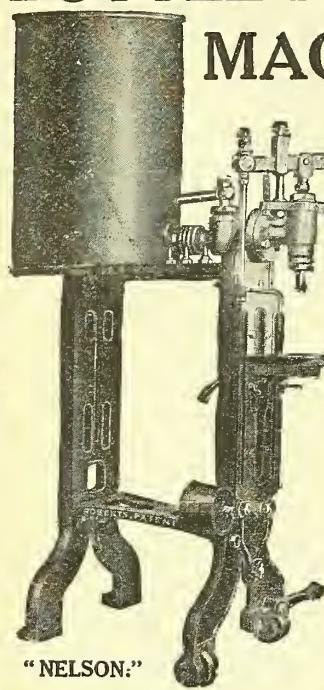
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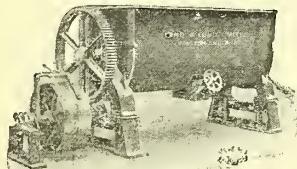
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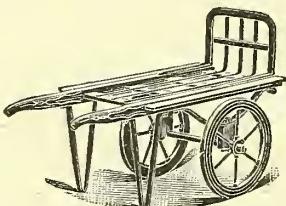
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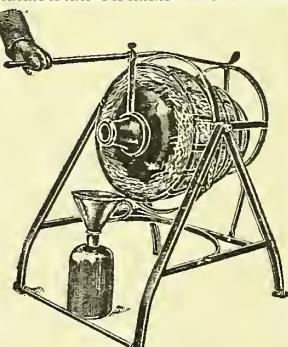
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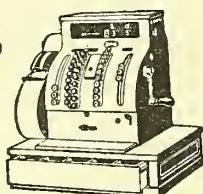
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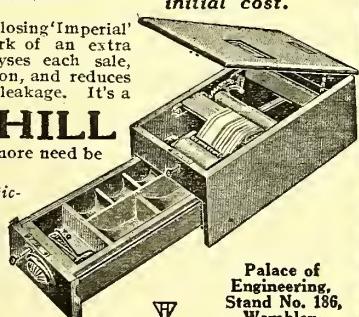
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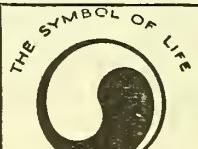
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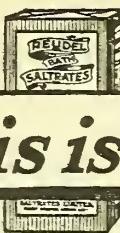
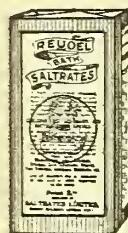


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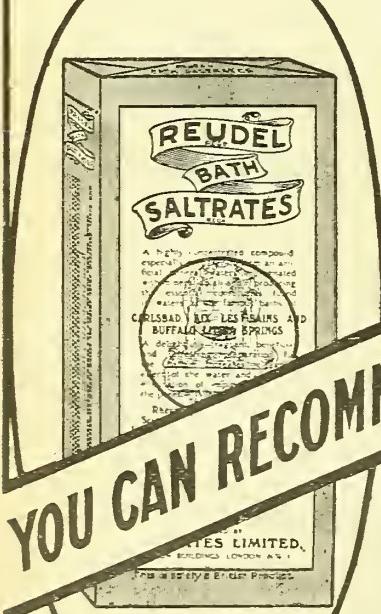
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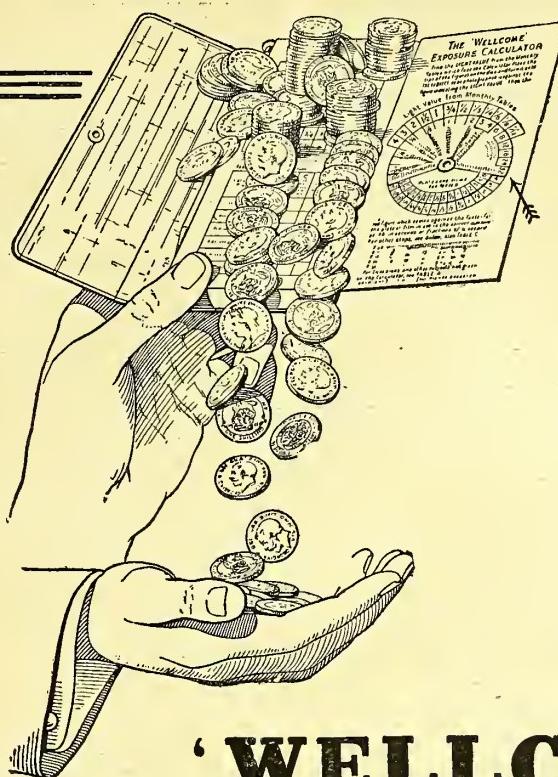
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Known, Admitted, and Approved Remedies

FOLLOWING the practice which we started some years ago we propose to reserve space in the forthcoming issue of *The Chemist and Druggist Diary*, 1925, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference and proprietary rights are not claimed. A clear indication must be given, on the label of the medicine, of the published formula as evidence that the medicine is of the kind to which the exemption refers. *The Chemist and Druggist Diary* was the first book of reference recognised by the Board of Customs and Excise, after the British Pharmacopœia, and the *Diary*, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent **not later than October 11**, addressed to the Editor, C. & D., 42 Cannon Street, London, E.C.4.

English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Supply of Morphine and Heroin to Drug Addicts

The Minister of Health has appointed a Committee, with the following terms of reference :—

To consider and advise as to the circumstances, if any, in which the supply of morphine and heroin (including preparations containing morphine and heroin) to persons suffering from addiction to those drugs may be regarded as medically advisable, and as to the precautions which it is desirable that medical practitioners administering or prescribing morphine or heroin should adopt for the avoidance of abuse, and to suggest any administrative measures that seem expedient for securing observance of such precautions.

The members of the Committee are : Sir Humphry D. Rolleston, Bt. (President of the Royal College of Physicians), chairman; Sir William H. Willcox, M.D. (honorary medical adviser to the Home Office); Mr. J. W. Bone, M.B.; Dr. R. W. Branthwaite; Dr. G. M. Cullen; Professor W. E. Dixon, M.D.; Dr. John Fawcett; Mr. A. Fulton, M.B. (divisional medical officer, Ministry of Health); and Mr. J. Smith Whitaker (senior medical officer, Ministry of Health). The joint secretaries are Dr. E. W. Adams and Mr. R. H. Crooke, Ministry of Health, Whitehall, London, S.W.1; to whom all communications should be addressed.

Chemists' Dental Society

Council and general meetings of the Chemists' Dental Society were held at the Imperial Institute, London, S.W.7, on October 2. In the absence of the President (Mr. F. R. Sutcliffe), the Vice-President, Mr. F. C. Ashford (Northampton), occupied the chair. Among others present were : Messrs. Barker, Brook, Davis, Templar Malins, Morgan, Williams, Laws, and Roberts. The secretary reported his attendance as representative of the Society at the meetings of the joint committee of approved societies and dental representatives, and also on the central committee of the Public Dental Service Association. All members were advised to support this association, on which the licentiates and the 1921 men were amicably engaged in smoothing out all difficulties and in building up a definite scheme of dental treatment in conjunction with the approved societies. Mr. Ashford mentioned instances of approved societies using restricted panels; but as the matter is on the agenda for the next meeting of the central committee, it was left over with the hope that these societies will all fall into line. Mr. Templar Malins made some interesting remarks regarding the General Medical Council and the Dental Board, and it was generally conceded that the 1921 dentists should have a stronger representation on the ruling body.

Contracts

The following tenders have been accepted by the bodies named :—

Barnstaple Guardians.—Mr. E. W. Proudman, chemist and druggist, drugs and dressings.

Crown Agents for the Colonies.—Arthur H. Cox & Co., Ltd., tablets (Uganda).

Croydon Guardians.—Thomas Hodgkinson, Prestons & King, drugs; Robert Bailey & Son, Ltd., dressings; Allen & Hanburys, Ltd., surgical instruments.

Depwade Guardians.—Mr. R. C. Hannant, chemist and druggist, Harleston, drugs and sundries.

Elham Guardians.—Corbyn, Stacey & Co., Ltd., drugs.

Merthyr Tydfil Guardians.—Mr. V. A. Wills, chemist and druggist, drugs.

Winchester Guardians.—Boots, Ltd., sundries.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report :—

Gertrude M. Bissett, an accountancy clerk, living in North London, died as the result of taking oxalic acid while of unsound mind.

At Birmingham, Mr. Frederick George Haywood, a medical practitioner, committed suicide by taking hydrocyanic acid in the presence of a sheriff's officer. The inquest resulted in an "Unsound mind" verdict.

At St. Helens, Frederick E. Sneyd, occupation not stated, committed suicide by taking hydrocyanic acid. He obtained the acid, it was reported, by giving a false name and saying that he wanted it for veterinary purposes.

An inquest was held at Ashton-in-Makerfield, recently, on the body of Mr. H. J. Hodkinson, chemist and druggist, who was found dead in bed. Mr. Douglas Lyon, M.B., deposed that Mr. Hodkinson had been given medicine for insomnia and neurasthenia. The last time witness saw him was about a month ago. The first mixture he had consisted of luminal sodium elixir; it was afterwards changed to chloral hydrate and ammonium bromide. Witness noticed that Mr. Hodkinson had finished the medicine sooner than was prescribed. At 2 a.m. on September 29, witness was called to the house, and found that Mr. Hodkinson was dead. In witness's opinion the death was due to an overdose of medicine. The coroner entered a verdict of "Death from misadventure."

An inquest was held in Manchester, recently, on the body of Mr. John A. E. Fenton, assistant to his father, Mr. J. M. Fenton, chemist and druggist, Oldham Road. Mr. Fenton stated that some time ago his son was found in bed in a state of coma, induced by drinking tincture of opium, and the witness then signed a declaration that he would look after him. Since then the young man had been normal, except for fits of depression. On September 28 the witness went with an errand boy to the motor-car, which was in the back yard, covered with a tarpaulin, and found his son sitting at the driving wheel, dead. A 6-oz. bottle which had contained tincture of opium was found in the bottom of the car. Tincture of opium had been kept in a cupboard of which the deceased had the key, and also in a locked bookcase. The witness could not suggest any reason why his son should take his life. The deputy-coroner found that the young man had committed suicide while insane.

Birmingham

Following an operation, Dr. Featherstone is reported to be making good progress towards recovery from his illness.

Pharmacy was well represented at the welcome given to the new Bishop of Birmingham in the Town Hall on October 6.

In connection with the anniversary of the opening week, Mr. G. S. Galloway, chemist and druggist, Victoria Square, is presenting each customer with a gift.

In a police court case concerned with the ill-treatment of a dog, recently, it was mentioned that Mr. W. Scott, chemist and druggist, Wheeler Street, had rendered valuable first-aid to the canine victim.

On the occasion of his visit in connection with the opening of the Municipal School of Pharmacy (*C. & D.*, September 20, p. 410), the Vice-President, Mr. Philip F. Rowsell, F.C.S., Mayor of Exeter, will be entertained to lunch by the local association.

The sixth annual installation meeting of the Alchemy Lodge was held recently at the Masonic Hall, and was attended by a large number of visiting pharmaceutical brethren, including Wor. Bro. Harris, Coventry, Wor. Bro. Jenkins (Galen Lodge), and Bro. Rennie, Leeds. The Provincial Grand Master (Colonel W. F. Wyley) and many of the provincial officers of Warwickshire were present. Wor. Bro. J. W. Shields, W.M., installed his successor, Bro. Joseph Robinson, Coventry, who then appointed and invested his officers for the ensuing year, as follows:—Bro. W. E. Hipkiss, S.W.; Bro. C. B. Baker, Nuneaton, J.W.; Bro. R. E. Howard, S.D.; Bro. E. W. Saunders, J.D.; Wor. Bro. F. C. H. Foster, secretary; Wor. Bro. Maurice Smith, treasurer; Wor. Bro. F. J. Gibson, Ch. Std.; Wor. Bro. W. C. Scott, D.C.; Wor. Bro. C. E. Ison, Atherstone, A.D.C.; Bro. Short-house, I.G.

The fourth annual installation convocation of the Alchemy R.A. Chapter was held at the Masonic Hall, on October 2, when Ex. Compn. J. W. Shields, M.E.Z., installed Compn. A. W. Gerrard as his successor. Ex. Compn. F. C. H. Foster, P.Z., installed Ex. Compn. F. Burnett as H., and Ex. Compn. Maurice Smith, P.Z., installed Ex. Compn. Joseph Robinson as J. The M.E.Z. then invested the following officers of the Chapter for the ensuing year:—Compn. Burton, S.N.; Compn. Knight Hall, P.S.; Compn. W. E. Hipkiss, treasurer; Compn. Knowles, A.S.; Ex. Compn. Shields, I.P.Z.; Ex. Compn. F. C. H. Foster, D.C.; and Ex. Compn. Maurice Smith, Ch. Std. The Provincial G. Supt. Canon, C. W. Barnard, congratulated Ex. Compn. A. W. Gerrard on his elevation to the first Principal's chair, and expressed the hope that the new M.E.Z. would at least become a nonagenarian, having already passed the four-score years.

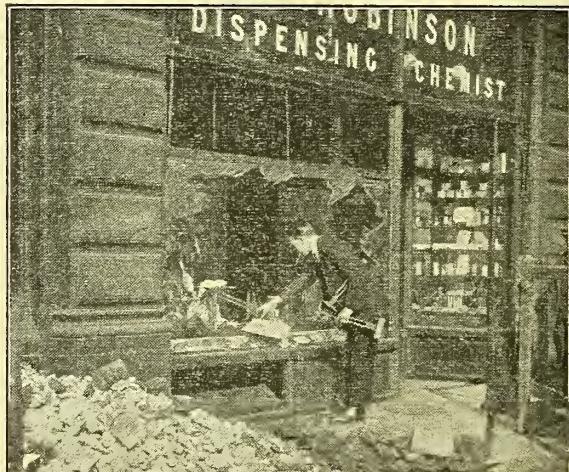
Liverpool

"Gibbs' Dentifrice" rubber mats and Wembley packets are conspicuous in the city and suburbs.

Mr. W. F. Patridge has just returned from a delightful motor holiday in the Wye Valley.

The Liverpool and District Pharmacists' Golfing Society had a most successful meeting on the links of Leasowe Club, on September 24, when the members competed for a cup presented by the captain (Mr. A. Fairbairn). The winner proved to be Mr. C. Wherley, with Mr. Alder as runner-up. After the game, the members joined in an excellent hotpot.

A gas explosion, which occurred at about 7.20 a.m. on October 7, beneath the iron cover of a manhole in the pavement just outside the shop of Mr. J. H. Robinson, 39 Tithebarn Street, demolished a plate-glass window and did some damage to the interior of the business.



CLEARING UP THE WRECKAGE

To a *C. & D.* representative who visited the pharmacy, Mr. Robinson said his examination of the premises revealed that the exploding gas had penetrated beneath the bed of the encased window by means of the ventilators and had driven the plate-glass outwards. The largest sheet of glass was shattered, but the rest of the glass remained intact, and the damage to the window display was not nearly so extensive as would have been expected. The gas flame, however, had passed behind the large nests of drawers and burned the wood at the backs of the drawers, leaving the visible side almost untouched. After an army of officials had inspected the premises and made copious notes, Mr. Robinson was relieved in the evening to find his gas lighting restored and the window boarded up securely.

Sheffield

Mr. G. E. Pashley, chemist and druggist, Dronfield, who was asked to poison a dog as the owner was unable to pay the licence, handed the customer 7s. 6d. so that he might keep his pet. The licence was not taken out.

It is intended to hold the students' meetings at the Y.M.C.A. on Friday evenings in order to fit in with their evening classes. Prizes are to be offered, and apprentices and junior assistants can be enrolled by sending their names to the secretary, Mr. J. H. McConnachie, 265 Fulwood Road.

All general meetings of the Sheffield Pharmaceutical and Chemical Society are to be held on Wednesday evenings at The Church House, St. James's Street. The opening meeting will be held on October 15, when Mr. Austen will preside, and Mr. W. J. Melhuish will give a lecture on "Foods." The President is giving a lecture at Chesterfield on that date.

Miscellaneous

POISON-LICENCE APPLICATIONS.—A licence under Section 2 of the Poisons and Pharmacy Act, 1908, has been granted to Mr. E. Abbott, Colchester.—An application for a similar licence has been made to Oxfordshire County Council by Mr. A. Whetton, Bicester.

FIRE.—An outbreak of fire occurred on October 6 at the premises of Arthur J. Dickinson, Ltd., manufacturing chemists, Deptford, London, S.E., and resulted in the destruction of a number of carboys containing sulphuric acid. The outbreak is attributed to a spark from a locomotive.

FOOTBALL.—In the first round of the London Junior Cup, The British Drug Houses, Ltd., played Latham's Athletic at Chingford on October 4, the game resulting in a draw (1-1). In a friendly match against Denman's Athletic, recently, the B.D.H. team was defeated by five goals to four.

LONDON CHEMISTS' SPORTS CLUB.—Arrangements have been made this year for the London Chemists' Sports Club to amalgamate with the Script Sports Club for the annual dinner and dance at the Restaurant Frascati, Oxford Street, W.1, on November 6, at 6.30 p.m. Application for tickets should be made to Mr. J. Hearle, 33 Liverpool Road, N.1, or to Mr. W. E. Swanston, 140 Hornsey Road, N.7.

LONDON CHEMISTS' BILLIARD HANDICAP.—Commencing on October 15, and continuing every Wednesday at 9 p.m., as a preliminary to the usual winter billiards handicap for the various "Script" Club trophies, a snooker handicap will be held. Every pharmacist in London is eligible to enter, and it is hoped this year to secure many more entries. The Shaftesbury Hotel Billiard Hall, Great St. Andrew Street, W.C. (a continuation of St. Martin's Lane) is the place of meeting. Further inquiries should be addressed to the secretary, Mr. W. E. Swanston, 140 Hornsey Road, N.7, or to the President, Mr. Herbert Skinner, Royal Northern Hospital, N.7.

CHARGE OF MANSLAUGHTER.—At Gloucester Police Court, on October 2, Walter Robert Hadwen, M.D., chemist and druggist, was committed for trial on a charge of manslaughter arising out of the death of a child. The defendant already stood committed for trial on a coroner's warrant, following a verdict that the child died from diphtheria and pneumonia, and that Dr. Hadwen failed to show competent skill and sufficient attention. Evidence was given by the mother of the child, two local medical men, and the health superintendent of the Isolation Hospital, who said that he did not consider a vinegar-and-water gargle a very useful treatment for diphtheria. Sir William Willcox, giving evidence, said that, in his opinion, if Dr. Hadwen had made a careful examination he could not have failed to notice the symptoms, for they were unmistakably those of diphtheria. In all probability the death of the child was caused or accelerated by Dr. Hadwen's failure to take proper steps. Bail was allowed, and the defendant reserved his defence.

IN THE COURTS.—At the Old Bailey, London, on October 3, Alfred C. Dove, described as a chemists' sundriesman,

was bound over on a charge of conspiracy to defraud in connection with the issue of privilege railway tickets (*C. & D.*, August 23, p. 298).—At West London Police Court, recently, Robert Dixon (57), a Guardians' dispenser, was sentenced to nine months' hard labour for a criminal assault on two young girls.—At Newcastle-on-Tyne Police Court, on October 7, James Bell (37), electrical worker, was charged with having attempted to murder his two sons by administering poison, and with having attempted to commit suicide by taking poison. The prosecuting solicitor stated that the accused had prepared porridge for supper with milk and veronal, which he gave to the boys. A remand was ordered.—At London Sessions, on October 8, Charles O. Gervais was convicted, after a second trial, of obtaining by false pretences from Dr. John Shaw, Bedford Place, W.C., a cheque for £25 (*C. & D.*, August 23, p. 298), and was sentenced to nine months' imprisonment in the second division.

CONSPIRACY CHARGE.—At North London Police Court, on October 7, Charles E. W. Robinson, Mildmay Road, N., and Frederick J. Edridge, Pedro Street, E., were summoned for conspiring together on various dates to defraud W. J. Bush & Co., Ltd., manufacturing chemists, Ash Grove, E., and for obtaining by false pretences four cheques, the moneys of W. J. Bush & Co., Ltd., with intent to defraud. There was another summons against Robinson for alleged falsification of accounts. Mr. L. A. Burne, for the prosecution, said there was a possibility of a certain course being taken by the defendants. Robinson was a clerk in Messrs. Bush's employment, and Edridge traded as a glass-bottle maker and supplied the firm with bottles. When the summons was served on Edridge, he replied: "There are really three of us in it. My late partner had some of the money. I don't want to be hard on Robinson, but he is the cause of it. I gave him the discount and then he was not satisfied." Both the defendants had written letters to the prosecutors in which they admitted what they had done. The solicitors for the defence asked for an adjournment, which was granted without any evidence being called.

PRIVATE ARRANGEMENT.—The creditors of Mr. C. I. H. Bowdage, chemist and druggist, Myddleton Road, Bowes Park, London, N., were called together recently at the offices of the Association of Manufacturing Chemists, Ltd., Holborn Viaduct, E.C., when the chair was occupied by Mr. F. Sibley, the representative of The British Drug Houses, Ltd. A statement of affairs disclosed liabilities £962 18s. 5d., of which £773 18s. 5d. was due to the trade. The assets consisted of:—Cash at bank, £22 17s. 10d.; cash in hand, £2; fixtures, fittings and utensils, £1,150; life policy, £5; book-debts, estimated to realise £15; and motor-cycle valued at £50, making total assets £1,244 17s. 10d., from which had to be deducted £20 15s. for preferential claims, leaving a surplus of £261 4s. 5d. It was stated that the cash creditors were the debtor's father-in-law, in respect of cash advanced, and the previous proprietress of the business for the balance of the purchase price. It was reported that the debtor acquired the business in 1919, agreeing to pay £750. He had no capital at the time and borrowed the sum of £200 from his father-in-law, of which £70 had been repaid. When the debtor took over the business, the weekly turnover was about £25; at the present time it was estimated that it was over £40. No proper books of account had been kept. The debtor estimated that an illness which his wife had in 1920 cost him £100. In 1922 he himself was obliged to be absent from business for three months owing to illness. He had executed a deed of assignment in favour of Mr. Parkin S. Booth. Mr. Booth stated that he had been in negotiation with a chemist who was desirous of acquiring the business, and he made an offer of £1,050. The creditors discussed that offer, and were of opinion that it was inadequate. It was decided that the deed of assignment should be confirmed, and a committee of inspection was appointed. The following are among the creditors:—The British Drug Houses, Ltd., £109; Arthur Berton, Ltd., £19; Robert Blackie, £24; Barclay & Sons, Ltd., £20; J. Grossmith & Son, Ltd., £125; D. & W. Gibbs, Ltd., £17; May, Roberts & Co., Ltd., £114.

Scottish News

Brevities

Mr. H. Hughson, chemist and druggist, Aberdeen, has purchased the business of Mr. J. Bertie, chemist and druggist, Auchenh'a'e.

Mr. G. W. Somerville, son of Mr. G. Somerville, chemist and druggist, Edinburgh, is leaving shortly to take up an appointment in Malaya.

The premises of Babtie & Campbell, chemists, Bank Street, Alexandria, were involved, on October 7, in an outbreak of fire, which commenced in an adjoining building and caused a considerable amount of damage.

Aberdeen and District Pharmacists' Golf Club had their last outing of the season at Montrose recently. The weather was ideal and the course in excellent order. The contest in the morning was for two prizes, presented by A. & F. Pears, Ltd., and after a keen tussle Messrs. M. G. Duncan and S. Anderson were adjudged the winners, each handing in the net score of 77. In the afternoon, three prizes, given by the Club, were played for, the winners being Messrs. Forsyth, Ironside and A. Smith. Refreshments were partaken at the Queen's Hotel, and under the chairmanship of Mr. J. Forsyth the outing was concluded with an hour of song and story. A vote of thanks was given to Mr. W. G. Mitchell, the secretary, for the excellent arrangements.

Glasgow

Mr. H. H. Dixon, F.R.S., Sc.D., Professor of Botany, Dublin University, has been appointed Regius Professor of Botany, Glasgow University.

Mr. M. W. Dunne, representative in Scotland for E. C. de Witt & Co., Ltd., East Croydon, has removed from 40 Rankeillor Street, Edinburgh, to 14 Woodlands Road, Glasgow.

Efforts are being made to trace the owner of a small quantity of radium which was sent to Glasgow University some four months ago. Delivered by a messenger, it is presumed that the radium is intended as an anonymous gift, as no letter or other communication accompanied it.

Irish News

Wine Licence Compensation Claims

At the Belfast Claims (Licensing) Court, recently, the following awards were made to chemists or druggists for loss of profits for deprivation of wine licences:—George W. Hawthorn, 285 Springfield Road, £121; Charles Abernethy, Albertbridge Road, £87; T. J. Eglington, 136 Sandy Row, £130; Samuel McLaughlin, 2 York Road, £450; and £196 in respect of 157 Oldpark Road premises; Perry & Thompson, 78 Ann Street, £707; James Gillespie, 34 Woodvale Road, £260. Referring to the claim of Mr. M. McDonald, Ph.C., Donegall Street, Judge Thompson said there was a refusal to give the books, it being stated that chemists were not allowed to produce their books to prove payments for stock, etc. A claim was made against a public fund, and the Tribunal was there to investigate the claim. Therefore, they must have all the information and evidence they required. They would refer the claim back for further report. On the following day Mr. M. McDonald made a personal statement, in which he said that some remarks made by his Honour cast a reflection on him. It was not the case that he (Mr. McDonald) refused to produce books or documents. When he came before the Court he understood that, having recognised and accepted the report made by the Government accountant, the proceedings were purely formal. He courted the fullest investigation into his claim.

Brevities

Mr. M. J. O'Callaghan, L.P.S.I., has passed the Fellowship examination of the British Optical Association.

The fact that sugar is cheaper in the Ulster area than in the twenty-six counties has given rise to extensive smuggling (says a "Daily Express" correspondent).

Along one particular area of the border the sugar is brought to a dump on the Ulster side and, when a favourable opportunity presents itself, motor-cars laden with it dash over the line into the Free State.

Belfast

Mr. J. Carroll Culbert, Ph.C., gave an address recently before the Belfast Rotary Club on "The Romance of Pharmacy." Mr. Culbert traced the evolution of pharmacy from the earliest times to the present day, touching on the fashions in drugs and the relationship between the animal therapy of to-day and the cruder products of centuries ago. In conclusion, the speaker, referring to the necessity of a Pharmaceutical Society for Northern Ireland, said it was understood legislation would take place in the Ulster Parliament. Pharmacists were hoping for an Act that would mark an advance and realise higher ideals of service to the community. They hoped for greater opportunities for technical and scientific training along similar lines to the medical profession in the University or its allied technical schools. Pharmacy as a profession had reason to be proud of the work and discoveries of some of its members.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Sunday, October 12

Liverpool Pharmacists' Club.—Ramble to Rabymere and Bebington. Leave landing stage at 2.30 p.m.

Tuesday, October 14

Pharmaceutical Society of Great Britain (Birmingham Branch), Imperial Hotel, Temple Street, at 8.30 p.m. Annual meeting.

Pharmaceutical Society of Great Britain (East Metropolitan Branch), Municipal Alliance Office, 63 Broadway, Stratford, E.15, at 8.45 p.m. Annual meeting.

Wednesday, October 15

Birmingham Pharmaceutical Association, Technical School, Suffolk Street, at 3 p.m. Inaugural meeting and prize distribution of School of Pharmacy. Mr. P. F. Rowsell (Vice-President of the Pharmaceutical Society) will present the medals and prizes.

Chesterfield Pharmacists' Association and Branches of the Pharmaceutical Society of Great Britain and Retail Pharmacists' Union, Blackshaw's Café, High Street. Tea at 5 p.m., followed by respective meetings.

Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C., at 7.30 p.m. Mr. F. A. Hocking, M.B.E., B.Sc., on "The Guild System."

Pharmaceutical Society of Great Britain (Bolton and Wigan Branches), Empress Hall, Mealhouse Lane, Bolton, at 3 p.m. Address by Mr. H. Antcliffe (chairman of the Law Committee, Pharmaceutical Council).

Pharmaceutical Society of Great Britain (Portsmouth Branch), Goodies' Café, Elm Grove, at 7.15 p.m. Annual dinner. Tickets (10s. 6d. each) from W. H. Bown, 50 Victoria Road North.

Thursday, October 16

London (North-East) Pharmaceutical Association, St. John's Institute, Urswick Road, Hackney, at 3 p.m. Meeting.

North London Pharmaceutical Association, Camden Athenæum, Parkhurst Road, Holloway. Annual reunion of members of the Association and of the North Metropolitan Branch of the Pharmaceutical Society will be held at 7 to 11. Music, cards dancing, refreshments. Tickets (3s. 6d. each inclusive), Mr. Herbert Skinner, R.N. Hospital, London, N.7.

The Chemical Society, Burlington House, Piccadilly, London, W.1, at 8 p.m. Four papers, including "The Influence of Catalysts on Carbonisation," by R. Lessing and A. L. Banks, and "The Photosensitive Formation of Water from its Elements in the Presence of Chlorine," by R. G. W. Norrish and E. K. Rideal.

Friday, October 17

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, at 9.15 p.m. Annual meeting.

Retail Pharmacists' Union (Birmingham Branch), Imperial Hotel, Temple Street, at 8.30 p.m. Annual meeting.

CONVICTIONS for drunkenness reported to have been due to drinking methylated spirit increased from 516 (250 males, 266 females) in 1922 to 683 (334 males, 349 females) in 1923.

Colonial and Foreign News

SUDAN CUSTOMS DUTY ON MEDICATED WINES.—It is notified in the Government Gazette, August 10, 1924, that the total import duty on medicated or medicinal wines containing alcohol not exceeding 23 per cent. of their volume is 15 per cent. *ad valorem*. The allowance made on such wines on which duty has been paid to the Egyptian Customs is 8 per cent. *ad valorem*.

PROPRIETARIES IN BELGIUM.—What undoubtedly constitutes the first step towards the elaboration of new legislation dealing with pharmaceutical specialities in Belgium is the recent appointment by the Royal Academy of Medicine of a commission of five members—the president, MM. Béco, Ranwez, De Myttenaere, and Henrijean—to investigate what measures should be introduced to deal with the traffic in specialities.

AUSTRIAN SPECIALITY REGISTRATION.—The charges in connection with the registration of pharmaceutical specialities in Austria have been increased fivefold. In future, the application for registration must bear a revenue stamp to the value of 15,000 crowns, and to each annex, including even the smallest sample or specimen, a 2,000-crown stamp has to be affixed, while the actual certificate of registration will cost 200,000 crowns.

OPIUM PRESCRIPTIONS IN THE RHINELAND.—German pharmacists in the occupied territory have repeatedly complained that they have been unable to comply with the regulations requiring the retention of prescriptions calling for dangerous drugs, since French doctors and foreign customers have insisted on having their prescriptions returned. As a result of representations by the German Association of Pharmacists, the Rhineland Commission has now withdrawn its veto on the enforcement in the occupied territory of the provisions of the German Opium Regulations of June 5, 1924, and henceforth these will be enforced throughout the Rhineland.

ITALIAN SPECIALITY TAX.—A law of 1923 established a turnover tax of 3 per cent. on all sales of medicinal specialities, each transaction involving a passage of the article from one holder to another being liable to this charge. The tax in this form has now been abolished, and in future all sales of compounded medicines, such as tablets, pills, ampoules, syrups, etc., proprietary medicines, mineral waters and natural salts in bottles will be subject to a transfer tax of 0.20 lira for every 20 lire or fraction thereof, for preparations selling at under 100 lire, and on those exceeding the value of 100 lire, of 1 lira for every 100 lire or fraction thereof. No compensation will be paid in respect of preparations bearing the old transfer tax stamp.

PROPRIETARY MEDICINES IN VICTORIA.—The Victorian Board of Health recently issued the following regulation:—"Every package containing a patent or proprietary medicine shall have attached thereto a label in which shall be inscribed, legibly and prominently in the English language, the names of the ingredients therein for which therapeutic properties are claimed and the measure, number, quantity, volume or weight of such ingredients contained in the dose recommended for an adult." At a meeting held under the auspices of the Melbourne Chamber of Commerce, reports the "New Zealand Herald," July 9, strong protests were made against this stipulation. In reply to the arguments advanced by a deputation, Dr. Robertson, chairman of the Victorian Food Standard Committee, stated that while he could not recommend the cancellation of the regulation, he assured the deputation that the matter would have the serious consideration of the committee.

A SUBSTITUTE FOR QUININE.—The growing prevalence of malaria in South-Eastern Europe, and the high price of quinine, have stimulated the search for an effective and cheap preparation to combat an infection showing, in some countries, a disquieting increase. The "Apotheker Zeitung" (Komotau, Czechoslovakia), in its issue of August 21, states that over a hundred years ago a German army doctor discovered a particularly

effective febrifuge, which was used for ten years with the highest success. Our contemporary then proceeds to state that the discoverer's records and notes are in the possession of Herr Gegenbauer, an author residing in Zlabings, South Moravia, who has already approached the Malaria Commission of the League of Nations.

PERFUMES FOR SWEDEN.—The board of control, acting under a provision of the royal order of July 1, 1918, has now removed the restrictions on the importation into Sweden of a number of alcoholic preparations, including eau de Cologne, perfumed essences and extracts, hair dyes and lotions, mouth washes, etc., subject to certain conditions. Consignments of eau de Cologne, and of hair lotions, for instance, must be accompanied by a declaration by the manufacturer to the effect that the product has been denatured by the addition of 0.3 gram of colocynth per 1,000 c.c. The same applies also to toilet preparations containing vinegar, or prepared with acetic ether, in which case cupric chloride (4.5 grams per 1,000 c.c.) may be added as the denaturant in the place of colocynth. Preparations for application to the skin, such as creams, etc., consisting essentially of glycerin and alcohol with the addition of a perfume, will not be admitted, and the same applies if their composition resembles that of eau de Cologne.

ARGENTINE MERCHANDISE MARKS LAW.—The Argentine law, No. 11,275 of 1923, on trade-marks and the compulsory designation of origin of goods, comes into force on November 10. This law requires that all products or articles manufactured in the Republic shall bear the words, "Industria Argentina." In the case of goods imported from abroad, the name of the country of origin must be stated, in Spanish, French, English, Italian, Portuguese or German. In addition, the quality of the product, the ingredients, and their purity must be indicated, while weights and measures have to be expressed in the decimal system. These declarations are to appear on all labels, wrappers or containers, and on every piece which bears a label or wrapper. It is interesting to note that when advertising goods of Argentine manufacture the words "Industria Argentina" must be included, also in price lists, etc. In this connection it may be mentioned that the German Chamber of Commerce in Buenos Aires proposes to introduce the use of a shield with the words "Deutsche Ware" (German ware), to be registered as a trade-mark in Argentine and in Germany, as a distinctive mark for goods of German origin, and all German manufacturers are to be permitted to use this design for their products. German artists have been invited to submit designs for this shield, which is intended to prove a means of advertising German goods.

SPANISH MEASURE AGAINST FORGED PRESCRIPTIONS.—To stop the growing practice of forging prescriptions for morphine and cocaine and other narcotics, the civil governor of the Province of Valencia has decreed that all prescriptions calling for toxic substances—that is to say, substances administered in doses ranging from a fraction of a milligram to 0.05 gram—must be written on special forms bearing a serial number and the stamp of the provincial College of Practitioners. These forms will be supplied by the latter to all registered medical men in the province, and pharmacists are forbidden to supply any "toxic substance, narcotic or anaesthetic," except on a prescription written on one of these forms, which are to be retained by them. The order also prohibits pharmacists in the province of Valencia from filling prescriptions of this description emanating from prescribers residing in another Spanish province. Holders of such prescriptions will be obliged to have them copied on the prescribed form by a doctor in the province of Valencia. To control the prescribing of heroic drugs by medical men, the College of Practitioners of Valencia is required to enter into a special register the serial numbers of the forms supplied to each practitioner. The pharmacist or medical man who fails to comply with this order renders himself liable to a fine of from 50 to 500 pesetas, and for a second offence, which will be treated as an act of disobedience, the transgressor will be dealt with by the Criminal Court.

Legal Reports

Goddard's Litigation.—In the Vacation Court, London, on October 8, Mr. Justice Talbot had before him several motions by J. Goddard & Sons to restrain the passing off of other plate powder as Goddard's Plate Powder or Goddard's Non-mercurial Plate Powder. In the case of a defendant named Davis, Mr. Gray, for the plaintiffs, said that Davis consented to a perpetual injunction and to pay £2 2s. damages and the costs. Defendants named Palmer and Whitcomb agreed to a similar order and paid £2 damages and £26 5s. as costs. The Shanklin Lake and Branston Co-operative Society and the Cowes Co-operative Society, Ltd., submitted to a perpetual injunction and paid £2 damages and taxed costs, while Long & Co. consented to a similar injunction and paid £5 and costs. With regard to Larcombe & Co. there would be a perpetual injunction and £2 agreed damages and costs. Mr. Pattison, for Larcombe & Co., said it was a very hard case. The defendant was a poor man who sent an order for Goddard's Plate Powder to a highly respectable firm and sold what they supplied. He could not fight a case involving heavy costs. Mr. Gray: However hard it is, it was unavoidable. We have sent out 93,000 circulars to the trade, and if defendant did not get one he was unfortunate. In motions against Horner and Mundy and Kearney Brothers the defendants did not put in an appearance, and an injunction was granted until the trial.

"Paregoric" without Opium.—At Blackburn Borough Police Court, on October 6, John Shorrock, herbalist, 40 Copy Nook, was summoned, at the instance of Philip John Alcock, for applying a false trade description to a certain mixture, in contravention of Section 2 of the Merchandise Marks Act, 1887. He was also summoned for selling to Margaret Dick a certain mixture to which a false trade description had been applied. Mr. F. B. Turner, barrister, represented the complainant, and Mr. T. Lindsey, Darwen, defended. Mr. Turner, in opening the case, said that the mixture sold to Miss Dick was reported as paregoric, and his case was that it was falsely described as such, inasmuch as the sample was found not to contain tincture of opium. Half an ounce of paregoric was supplied in a small bottle by the defendant, who charged 3½d. The bottle was labelled with the written word "paregoric," without any qualification of any sort. Before the analysis it was thought that the defendant was selling a poison without being a registered chemist, and was therefore offending against the Pharmacy Acts. He was accordingly written to on the subject. He replied that the mixture he sold was paregoric "free from opium," and that he had endorsed the label as such. However, this was not done, so that the defendant must have had another instance in mind. The facts did reveal, however, that defendant was aware that the real paregoric should contain opium. The clerk inquired whether, in selling paregoric in this way, defendant was saving money or endangering the public. Mr. Turner: It is not necessary to prove any motive. Defendant is not a qualified chemist, and is therefore not entitled to sell paregoric with opium in it. Mr. Lindsey: Our case is that the mixture we sold was paregoric essence without any opium in it at all. It has the same properties without the danger. My defence is that we sold the mixture innocently, and that is a defence which is provided for under the Act. There has been no gain whatever so far as my client is concerned. Mr. Turner said it was important that the regular paregoric should be sold. Paregoric was a working-class remedy, and it was often given to children. If the substitute was sold as paregoric, and people got accustomed to taking it in larger doses to relieve their pain, then there was a real danger if they adopted this method with the real mixture, containing opium. Miss Dick, giving evidence, stated that she did not see a notice posted in the shop to the effect: "No dangerous drugs or scheduled poisons sold here." The defendant did not tell her that the mixture was essence of paregoric without opium, or anything of that kind. Mr. Frank Wokes, B.Sc., Ph.C., called for the prosecution, stated that he had analysed

the sample purchased by Miss Dick, and found that it did not conform to the accepted standard set by the British Pharmacopoeia. Mr. Lindsey: I accept the Pharmacopoeia as a standard. We have no dispute on that point. We say there is a paregoric sold by chemists, with the addition of opium, and a paregoric essence sold by herbalists free from opium. Cross-examined, the witness said he did not accept the statement that the preparation sold to Miss Dick was on sale throughout the country as paregoric. The Clerk: Can it be sold as paregoric essence, then?—I do not think it can. In my view the essence of paregoric is the opium tincture. Mr. Wokes added that, though he had had a long experience, he had not heard of paregoric essence of the kind suggested by the defence. Re-examined, the witness said that if there was a substitute for paregoric on sale, it was sold *sub rosa*, and not openly in the shops. Mr. Lindsey submitted there was no case against his client, or, if the regulations had been broken, the offence was of a highly technical character. The paregoric sold by the defendant was retailed all over the country, and Mr. Lindsey produced the catalogue of a wholesale firm which showed that paregoric was sold, both with and without the addition of opium. Paregoric essence was an old Lancashire remedy, and had been used in Lancashire homes for generations. It was popularly known as "All fours," and it was to the herbalists that working people went for the essence free from opium. He desired to emphasise that part of the case, because the defendant's story was borne out by the catalogue to which he had referred. The fact that there was paregoric both with and without opium showed there had been no false description. Moreover, there was a card hung in a prominent position in the shop to the effect that dangerous and poisonous drugs were not retailed there. When paregoric was asked for, defendant made a practice of stating to the customer that it was the essence "free from opium," and if he had placed that on the label there would have been an end of the case. The Merchandise Marks Act was never intended to apply to such a case as this. People who went to a herbalist's shop knew very well that they could not get poisonous preparations. The defendant gave evidence in support of his solicitor's statement. The chairman said that while the defendant was perfectly innocent of any intention to break the law, the Bench were of the opinion that there had been an offence. He would be fined 40s. in the first case and 20s. in the second, and would have to pay the costs of the witnesses.

Gazette

Partnerships Dissolved

FABER, E., GARRAWAY, H. W., and THORNHILL, C. H., general merchants, 60 Mark Lane, London, E.C.3, under the style of August Faber & Co.

SABLE, W. J., and PALMER, W. O., Westinghouse Road, Trafford Park, Manchester, manufacturing chemists, under the style of The Farinol Co.

YOUNG, S. D., and LINFORD, R. D., 15 Victoria Street, London, S.W.1, perfumers, under the style of Parfums Arlequin.

Bankruptcy Acts

ADJUDICATION

YATES, J. H., High Street, Storrington, chemist's manager.

RECEIVING ORDERS AND ADJUDICATIONS

HOWARTH, W., Bradley Fold, near Bolton, soap manufacturer.

PEARCE, MARIE G., 4 King Street, Tavistock, drug-store keeper.

RIGBY, J. B., Upper Hill Street, Great Homer Street, and 31 St. James Street, Liverpool, chemist.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

CORNELL & CO., LTD. (P.C.).—Capital £1,500. Objects : To carry on the business of chemists, druggists, oilmen, etc. The directors are : A. Cornett and J. Cornett. R.O. : 13 Woodvale Road, Belfast.

ARNOLD & SCOTT, LTD. (P.C.).—Capital £100. Objects : To carry on the business of manufacturers and vendors of proprietary remedies, etc. The directors are : H. B. Pryor, Armadale, Guildford Road, Woking, and A. Moyses, 83 Somerford Road, Streatham, S.W.17.

JAMES WADDICOR, LTD. (P.C.).—Capital £10,000. Objects : To acquire the business of a varnish and patent medicine manufacturer and tea merchant carried on by James Waddicor at Bradshaw, near Bolton. The directors are : J. Waddicor, Mrs. S. Waddicor, J. Waddicor, jun., and H. Chambers.

BUSHMILLS PHARMACY, LTD. (P.C.).—Capital £1,000. Objects : To take over the business of a chemist and druggist carried on by Robert King as the General Supply Stores. The directors are : R. King, W. M. Kennedy (chemist), Mrs. Annie King, and Thomas Taggart. R.O. : Market Square, Bushmills, co. Antrim.

W. WILLOTT (MILTON), LTD. (P.C.).—Capital £300. Objects : To acquire the business of a vendor of drugs, patent medicines, chocolates, sweets, tobacco, cigarettes, smokers' materials and fancy goods, now carried on by W. Willott. The directors are : W. Willott, Mrs. Alice Willott, and H. N. B. Scott. R.O. : 76 Market Street, Milton, Stoke-on-Trent.

EDWARDS BROTHERS (LONDON), LTD. (P.C.).—Capital £10,000. Objects : To acquire the business of a manufacturing brush maker and chemists' sundriesman carried on at 63 St. Paul's Road, Canonbury, N., as "Edwards Brothers," and to adopt an agreement with E. A. Edwards. The directors are : E. A. Edwards and R. Onwood. R.O. : 63 St. Paul's Road, Canonbury, London, N.

PRUNOL FOREIGN PROPRIETARY, LTD. (P.C.).—Capital £5,000. Objects : To acquire the recipe, prescription and full information as to the processes of manufacturing, and the right to manufacture and deal in a certain medical preparation known as "Prunol Prune Jelly," and to adopt an agreement with G. C. Guapp. Solicitors : Leonard Tubbs & Co., Moorgate Station Chambers, London, E.C.

MAISON WALLACE, LTD. (P.C.).—Capital £500. Objects : To carry on the business of hairdressers, wigmakers, posticheurs and human hair merchants, masseurs, chiropodists, hair and skin specialists, manufacturers of and dealers in hair and skin foods, lotions, extracts, creams, pastes, perfumes, face powders, hair dyes, and tints, etc. The directors are : J. A. Wallace, 96 Claude Road, Cardiff, and E. Jones, 8 Marlborough Road, Cardiff.

COOPER'S DENTIFRICE DEPOT, LTD. (P.C.).—Capital £500. Objects : To carry on the business of manufacturers of and dealers in tooth pastes and powders, mouth washes and all kinds of dental preparations, manufacturing chemists and druggists, dental chemists and surgeons, chemical manufacturers and dealers, drysalters, etc. The directors are : S. L. Cooper and M. S. Cooper. R.O. : Carlton House, 11D Lower Regent Street, Waterloo Place, London, S.W.1.

AUGUST FABER & CO., LTD. (P.C.).—Capital £15,750. Objects : To acquire the business of general merchants, importers, exporters, and agents carried on by H. W. Garraway and C. H. Thornhill, 60 Mark Lane, E.C., as "August Faber & Co.," to carry on business as general merchants, traders' commission agents, shipowners, bankers, and carriers in the United Kingdom and elsewhere. Directors : Wm. E. Stewart, Nightingale House, Chalfont St. Giles, Bucks; C. H. Thornhill, Chase side, Rickmansworth; and H. W. Garraway, 25 Alton Road, Croydon. R.O. : 60 Mark Lane, London, E.C.

HARRY HEYMANN, LTD. (P.C.).—Capital £3,000. Objects : To acquire the business of a drysalter, chemical importer and commission agent carried on by H. Heymann at 5 Union Street, Bradford, and to carry on the business of manufacturers of and dealers in all kinds of dyewares, dyestuffs, chemicals, and all kinds of chemical substances, woollen, worsted, and fibre yarn spinners, piece goods manufacturers and merchants, dyers, etc. The directors are : H. Heymann, H. Jennings, Florence A. Butterly, and A. Wilman. R.O. : 5 Union Street, Bradford.

McDOWALL, MORRISON & CO. (MANCHESTER), LTD. (P.C.).—Capital £5,000. Objects : To carry on the business of analytical and consulting chemists and druggists, manufacturers, importers, exporters and wholesale and retail merchants and salesmen of all chemical products and by-products, including food chemicals, calcium acid phosphates, and sodium acid pyro-phosphates and derivatives, egg products, malt and cod-liver oil, essences, colourings, preservatives, and substances and liquids for aeration and fermentation, etc. The directors are : J. S. Morrison and B. W. Morrison. R.O. : Hadfield Street, Cornbrook, Manchester.

SILICA GEL, LTD. (P.C.).—Capital £315,500. Objects : To acquire any interests in any invention relating to modern processes and apparatus for effecting the separation of and/or recovering gases, and for processes for the recovery of liquid solutes from non-aqueous solutions and processes for the treatment of liquids, to remove or recover substances therefrom for the manufacture of silica gel and other gels and similar products . . . and to carry on the business of . . . chemists, druggists, drysalters, oil and colour men, manufacturers of and dealers in chemicals and manures, distillers, dyemakers, . . . Solicitors : W. Mark Pybus & Sons, Milburn House, Newcastle-on-Tyne.

BENGER'S FOOD, LTD., announce an interim dividend of 9d. per share, tax free, on ordinary shares.

BENNISON'S, LTD.—P. S. Booth, Kimberley House, Holborn Viaduct, London, E.C., ceased to act as receiver on September 24.

W. A. SOMERVILLE, LTD.—J. Airey, 8 Victoria Street, Liverpool, was appointed receiver and manager on September 18, under powers contained in first mortgage debenture dated March 9, 1922.

LEVER BROS., LTD.—Mr. W. L. Helm has been appointed a managing director from October 1. Mr. Helm was with Joseph Watson & Sons, one of the companies associated with Lever Bros., for some years, and towards the end of 1906 joined John Knight, London, of which he is vice-chairman. During the war he was secretary of the Soapmakers' Federation initiated by the Ministry of Food.

BRITISH CYANIDES, CO., LTD.—The accounts for the year ended April 30, 1924, show a loss of £24,990. From £14,847 brought forward there has to be deducted the interim dividend on preference shares, leaving £13,422 to be set against above loss, leaving debit balance to be carried forward of £11,568. The sum of £43,695 has been charged against reserve, being cost of shares in the British Potash Company, in liquidation, which are now of no value. Report states that position and prospects have greatly improved during the past few months.

GERMAN ANILINE TRUST.—The firms comprising the Aniline Trust announce that they can pay no dividend for the past year, as in no instance was their earning sufficient, and in some cases working was carried on at a small loss. Results for the current year so far have not been satisfactory, but it is hoped that the changed political conditions may bring higher sales and increased production. The firms concerned are : Mayer & Co., Leverkusen; Aniline Manufacturing Co., Berlin; Baden Aniline and Soda Works Co., Ludwigshafen; Meister, Lucius & Brüning, Hoechst; Weiler Ter Meer Chemical Works, Uerdingen, and the Griesheim-Elektro Chemical Works.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

ENGLAND AND WALES

Local Reports

Blackburn.—Prescriptions dispensed in July cost £593, the value of the ingredients being £286, and the dispensing fees £307.

Bolton.—In 1923 the Drug Fund amounted to £10,146. The cost of ingredients and dispensing for the first 182 days of the current year was £6,425, and the average total cost per insured person 18.2d.

Burnley.—At a meeting of the Insurance Committee, on October 3, a letter was read from the Ministry of Health concerning the scrutiny of prescriptions. The Ministry stated that, on an average, 5 per cent. of the prescriptions issued could not be traced. The clerk mentioned as possible causes the changing of names of married women, the indecipherable writing of medical men, and the services of locum tenentes who failed to sign the names of those for whom they acted.

Exeter.—A meeting of the Devon Pharmaceutical Committee was held on September 24, Mr. J. E. Calkin in the chair. The secretary read a letter from the Insurance Committee asking for observations on the case of a chemist who in special urgency had obtained a tube of hypodermic tablets (hyoscine hydrobromide) for which no out-of-pocket expenses could be allowed by the Pricing Office. It was resolved that the Ministry be asked to allow in urgent cases, on the recommendation of the Pharmaceutical Committee, necessary expenses incurred in obtaining unusual articles, and the secretary was instructed to send a copy of the resolution to the Insurance Committee and the Retail Pharmacists' Union.

London.—A meeting of the Pharmaceutical Committee took place on September 25. Owing to the indisposition of the chairman (Mr. A. R. Keith) the vice-chairman (Mr. J. A. Thompson) occupied the chair. The reports of the Central Checking Bureau for May and June 1924 showed a margin of error of 0.04 and 0.01 per cent. respectively. The secretary reported, *inter alia* :—Particulars of steps taken to prepare evidence for presentation before the Royal Commission on National Health Insurance. That samples of the official prescription form G.P. 26 had been printed. The Committee signified their approval of one of the samples submitted. That according to the National Insurance Gazette, August 23, 1924, the following particulars were supplied by the Ministry of Health to the Insurance Acts Committee of the British Medical Association showing the average cost of drugs and appliances per insured person in the various areas for the year 1923 :—

Industrial Boroughs	"Black Country" areas	Industrial Counties
Salford .. 3 1/2	Walsall .. 2 8/4	West Riding .. 2 5/4
Manchester .. 2 8	Dudley .. 1 7/2	Notts .. 1 7/2
St. Helens .. 1 9		
Middlesbrough 1 4/2		
 Rural Counties		
Devon .. 3 -	Seaside Boroughs	
North Riding .. 1 6	s. d.	s. d.
	Brighton .. 2 11/4	Blackpool .. 1 7

The average cost of drugs and appliances supplied to insured persons in the County of London in 1923 was approximately 2s. 7d. That Regulations have now been made extending the term of office of the persons who are members of the Insurance Committee to October 31, 1925. The pharmaceutical members of the Insurance Committee are Mr. A. R. Melhuish and Mr. G. A. Tocher (secretary). Particulars in respect of prescriptions dispensed during the first and second quarters 1924 as follows :—

	First quarter	Second quarter
Number of prescriptions ..	2,224,357	1,501,424
Cost of ingredients ..	£34,245 18s. 6d.	£24,047 1s. 11d.
Cost of dispensing fees ..	£42,103 12s. 7d.	£28,051 6s. 0d.
Average cost of ingredients ..	3.70	3.84
Average cost of fees ..	4.54	4.49
Number of insured persons ..	1,569,990	1,586,156
Number of prescriptions per insured person ..	1.42	0.95
Average total cost per insured person ..	11.67	7.88

Particulars in respect of prescriptions dispensed during the first six months of the five years 1920-1924, as follows :—

—	Number of pre-scrip-tions.	Total cost	Av. cost per pre-script.	No. of insured persons	Av. cost per person	Av. No. of pre-script. per person
1920	2,506,593	97,534	9.34	1,537,247	15.23	1.63
1921	2,697,209	104,005	9.25	1,595,445	15.64	1.69
1922	2,991,546	109,950	8.82	1,604,733	16.44	1.86
1923	3,153,279	104,861	7.89	1,607,938	15.65	1.96
1924	3,725,781	128,458	8.27	1,576,073	19.54	2.36

At a meeting of the Insurance Committee, on September 25, the Finance Subcommittee recommended the payment of accounts amounting to £39,154 5s. 1d. Included in this amount was the sum of £33,007 8s. 2d. to chemists for the medical year 1924. The accounts were passed. The Finance Subcommittee reported that the total cost of ingredients of prescriptions for the year 1923 was £90,751 4s. 10d., the dispensing fees amounted to £114,867 11s. 2d. The total cost for prescriptions for the year was £205,618 16s. They also submitted statistics of prescriptions issued during the six months ended June last (see table above). The Medical Benefit Subcommittee reported that the number of prescriptions received during the first six months of 1924 was larger than the number received during the corresponding period in any preceding year since the commencement of medical benefit. During the last five years the number of prescriptions issued to insured persons in London County had been constantly rising, but the mean number of insured persons had not increased at the same rate. For the six months period the average cost per prescription was now one penny less than it was in 1920; but the average cost per person was higher, and the number of prescriptions per person had steadily risen from 1.63 in 1920 to 2.36 in 1924. The total cost of the prescriptions issued to insured persons in the Committee's area for the first half of the current year was £128,000, compared with £97,000 for the corresponding half-year of 1920. Since the inception of the Act, sixty million prescriptions had been priced and checked by the Committee, the value of which was nearly £2,000,000. The cost of prescriptions for insulin supplied to insured persons resident in the Committee's area during the twelve months ended June 30 last was £1,758 5s. 8d. At the request of the Ministry of Health a special investigation was made by them (the Subcommittee) to ascertain what proportion of insurance prescriptions contained the special drugs referred to in the Dangerous Drugs Act, viz., opium, morphine, heroin and cocaine. Out of 170,447 prescriptions selected for scrutiny in this connection from those received during June, 1923, and January, 1924, the following were found to contain such drugs in the proportion stated :—

22,532 prescriptions or 13.25 per cent. contained opium.
24,315 " 14.30 " " morphine.
4,095 " 2.41 " " heroin.
77 " 0.05 " " cocaine.

The cost of this special work was £45 11s. 10d., which would be covered by a special grant from the Ministry. The prescriptions referred to were for preparations which contain these drugs in *any* proportion, whereas the provisions of the Dangerous Drugs Act only apply to preparations containing those drugs in certain specified strengths. In connection with a similar investigation carried out in March, 1923, it was found that in a total of 585,644 prescriptions there were only 414 in all, or 0.07 per cent. for preparations to which the provisions of the Dangerous Drugs Act actually apply. In view of the increase in the number and cost of prescriptions, which has been fairly general in all areas, the Ministry have decided that a survey should be made by the Regional Medical Staff of the prescriptions issued by practitioners throughout the country. In the Committee's Pricing Department this special investigation work has been proceeding for several months. The

number of complete reports to be prepared in respect of the London prescriptions is at the rate of about twelve per week, and requests for these reports have been already received in respect of ninety-eight practitioners.

Liverpool.—At a meeting of the Insurance Committee, held on October 3, a complaint that four times the amount of morphine ordered was contained in the medicine supplied to an insured person was discussed. Mr. W. H. Clubb, Ph.C., contended that nothing had been proved decisively. The three persons who each took a dessertspoonful only of the medicine instead of the tablespoonful prescribed could not have been made ill in the way stated by so small a dose of morphine. Evidently their illness arose from some other cause which was not specified or indicated. Moreover, the analysis should have been supplemented by an independent analysis or by an offer of a sample of the medicine. There had been, however, no division of the medicine into three samples as would have been imperative under the Food and Drugs Act. He thought such a division should be insisted on by the Committee in future. The clerk (Mr. W. Gill Hodgson) promised to draft a regulation on the lines suggested by Mr. Clubb. By a majority the Committee resolved to ask that more care should be taken in future, though they were impressed by the system adopted in the pharmacy in question and the fact that the complaint presented novel and inconclusive features. The mixture referred to was as follows:—Liq. morph. mur. m.45; mist. bismuth alk. ad 5vij. After the patient returned home he took a dose, and suddenly collapsed. A doctor who was called advised him not to take any more of the medicine. The patient's wife later took a dose of the medicine, and she collapsed about two hours afterwards. The mixture analysed by the City Analyst was found to contain 1/10th of a grain of morphine hydrochloride in each tablespoon dose instead of 1/40th of a grain as prescribed. (The patient only took a dessertspoonful.) As only one dose was taken, the firm of chemists pointed out that it would scarcely be sufficient to cause collapse, especially as one tablespoonful, according to the analysis, contained only the minimum official dose. In a further communication the chemist sent another statement regretting that, owing to the Committee's demand for a reply by return of post, he had been hurried into making a reply without consulting the dispenser and manager, and asking that an independent analysis be made by the Retail Pharmacists' Union. He asked also that the doctor be called to give evidence of the therapeutic action of the minimum official dose of liq. morph. hydrochlor.

Middlesex.—At a meeting of the Insurance Committee, on October 6, the Finance and General Purposes Subcommittee reported the payment of £4,105 13s. 6d. on the June account and £5,634 4s. 11d. on the July account. Amongst these were the following:—To chemists, June account, £3,371 7s. 5d.; to practitioners for emergency drugs and refund to insured persons of amount expended on cotton wool, dressing, etc., £25 9s. 10d.; to chemists, July account, £3,699 17s. 7d.; to practitioners for dispensing patients, third quarter (capitation drugs), £234 10s. The Subcommittee further reported that they had received a letter from the Ministry of Health relating to the scrutiny of prescriptions issued by practitioners in the Middlesex area, and have arranged for sample scrutinies to be undertaken to see that the prescriptions are issued to persons who are entitled to benefit. The total number of chemists on the panel is 315.

Sheffield.—The Minister of Health proposes to extend the term of office of the present members of the Committee for a period of two years from October 31, 1924. The August payment to chemists amounted to £1,475 0s. 4d., analyst's fees to £1 11s. 6d. A report presented to the Insurance Committee on the results of the testing of prescriptions has been adopted. Three cases of dispensing had been inquired into, and one of unsealed dressings. On the promise of the firm to withdraw all the present packed dressings it was decided that no further action be taken. In the first prescription, ferrous sulph. was dispensed in place of quin. sulph., but the analyst was of opinion that "quin." could be read as "ferri," but it was dispensed wrongly on that reading. A second case showed an excess of 125.5 grains

pot. iod. in the bottle of 8 oz., which was nearly double the quantity ordered. The third case showed a deficiency of 54 grains of pot. bic. and 137 grains of sod. salicyl. It was decided in each case to censure the chemist and ask the Minister to withhold a sum of £1 1s. from each account. A scrutiny of prescriptions is being made, by order of the Minister of Health.

Yorkshire, North Riding.—At a recent meeting of the Insurance Committee reports were submitted from the Joint Services Committee in regard to prescriptions. A script was issued by a doctor upon which was ordered an 8-oz. mixture containing 1½-drachm doses of tr. scillæ and vin. ipecac. The maximum B.P. dose of the former is 15 drops and the latter 30 drops. In reply to inquiries, the chemist had replied that the lesser quantities were dispensed, and not as prescribed by the doctor, and had expressed regret for the omission of the alteration necessary. The doctor had intimated that the mistake had evidently arisen by his inadvertently using the oz. instead of the drachm sign, and expressed his regret. It was ultimately resolved that a letter censuring the negligence of the doctor in relation to this script should be forwarded by the Committee, and that the expenses applied for be disallowed. The Committee were satisfied that the chemist acted wisely in dispensing the correct dosage, and recommended that his expression of regret for the omission be accepted as satisfactory. The clerk also reported that a doctor had issued two scripts for two separate insured persons. Each script ordered an 8-oz. mixture containing tinct. gelsem. and tinct. digitalis, 2-drachm doses of the former and 1½-drachm doses of the latter, the maximum dose of these preparations being 15 drops. The chemist, upon being asked for his observations, explained that the smaller quantities had been dispensed, and asked the Committee to accept his apology for omitting to make the alteration necessary on scripts. The doctor, in his reply to the Committee's inquiry for his observations, suggested that they were obvious errors, and that such scripts are usually sent back to the doctor or the chemist rings the doctor up for confirmation of alteration. He made immediate inquiries concerning the dispensing of the scripts in question, and satisfied himself as to the condition of the patients. It was resolved with regard to the doctor that his explanation be considered satisfactory, but that he be urged to exercise the utmost care in prescribing correctly in future. With regard to the chemist, his explanation was satisfactory, and his apology for the omission was accepted. Dr. Candler Hope pointed out that the mistakes were serious ones, but both were corrected by the chemists.

September Drug Tariff

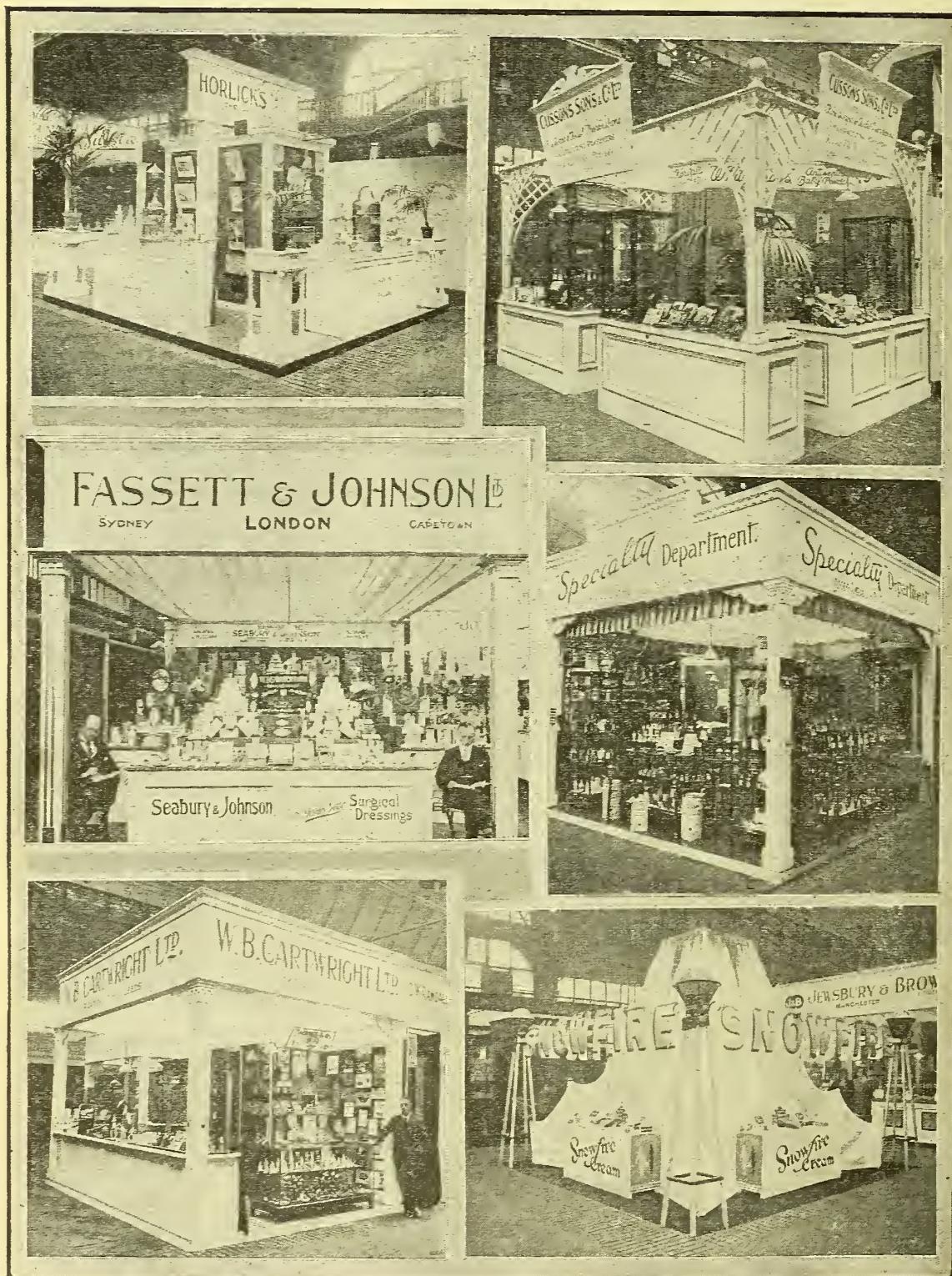
The following are the alterations for September in the Insurance Drug Tariff for England and Wales:—

Lower.—Acid. citric. pulv., 2s. 6d. lb.; acid. salicylic., 3s. lb.; anthem. flor., 3s. 3d. lb.; bism. carb., 13s. 9d. lb.; bism. oxid., 1s. 10d. oz.; bism. salicyl., 1s. 2d. oz.; bism. subgal., 1s. 3d. oz.; bism. subnit., 12s. lb.; collod. meth., 3s. lb.; dec. sarsæ Jam. co., 6s. 6d. lb.; ext. ergotæ, 2s. oz.; ferri et pot. tart., 5s. 9d. lb.; guaiacol carbonas, 1s. 8d. oz.; lin. chlorof., 4s. 6d. lb.; liq. bism. et am. cit., 1s. 11d. lb.; liq. formaldehyd., 1s. 3d. lb.; liq. pepticus, 2s. 8d. lb.; methyl salicylas, 3s. 9d. lb.; pot. tart. acid., 1s. 3d. lb.; rhei. rhizoma pulv., 9s. lb.; saccharum lact. pulv., 1s. 4d. lb.; sodii salicylas, 4s. lb.; ung. hamamel., 2s. 4d. lb. Bandages, rolled, open wove, grey: 1½ in. x 4 yds., 1.5d., 2 in. x 4 yds., 1.7d., 2½ in. x 4 yds., 2.1d., 3 in. x 4 yds., 2.4d., 4 in. x 6 yds., 4.7d., 6 in. x 6 yds., 6.8d. each; ditto, white: 1½ in. x 4 yds., 1.4d., 2½ in. x 4 yds., 2.3d., 3 in. x 4 yds., 2.7d., 4 in. x 6 yds., 5.1d., 6 in. x 6 yds., 7.7d. each. Gauze, unmedicated: 1 sq. yd., 2.8d., 3 sq. yds., 7.7d.

Higher.—Adeps benz., 1s. 8d. lb.; adeps prep., 1s. 3d. lb.; ammon. brom., 2s. 2d. lb.; argent. proteinat., 1s. 8d. oz.; chloral hydras, 9d. oz.; ext. opii liq., 7s. 6d. lb.; ext. opii sicc., 7s. 9d. oz.; lin. opii meth., 5s. 3d. lb.; liq. opii sed., 11s. lb.; menthol, 6s. 6d. oz.; ol. lini, 6s. 6d. gal.; ol. olivæ, 16s. gal.; opium pulv., 4s. 9d. oz.; pot. brom., 1s. 11d. lb.; pulv. ipecac. co., 10s. lb.; sodii brom., 2s. 1d. lb.; sulphonal, 2s. 3d. oz.; tr. cannab. ind., 28s. lb.; tr. catechu, 3s. 10d. lb.; tr. opii, 8s. 6d. lb.; tr. opii ammon., 7s. 6d. lb.; ung. gallæc. opio, 6s. 6d. lb. Cotton wool, unmedicated: 1 oz., 2.2d., 2 oz., 3.8d., 4 oz., 7.5d., 8 oz., 14.5d., 1 lb., 26.5d.

MANCHESTER CHEMISTS' EXHIBITION

More Photographs by Mr. John Cleworth





Photo]

THREE TYPICAL STANDS

[Cleworth]

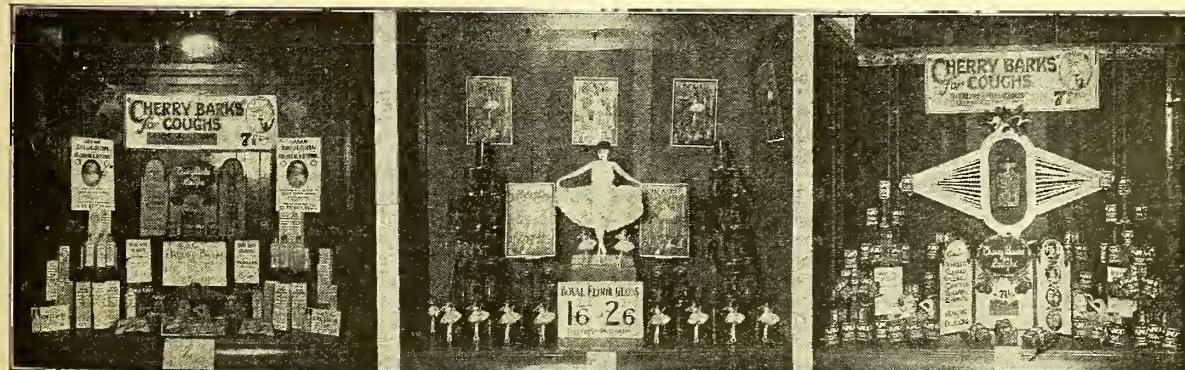
Manchester Notes

The negative from which our illustration of the opening ceremony of the Manchester Chemists' Exhibition was taken was developed during the few minutes occupied by the speakers, and was shown to Sir William Veno and others of the group as they left the platform.

On October 1, a smoking concert was held in the City Exhibition Hall. Mr. R. G. Edwards (President of the Manchester Pharmaceutical Association) was in the chair, supported by Mr. A. R. Melhuish (chairman, R.P.U.), and Mr. G. A. Mallinson (secretary, R.P.U.). Mr. Melhuish made an eloquent appeal on behalf of the Pharmaceutical Society's Benevolent Fund, and over £30 will be sent to the fund. As usual, Mr. J. H. Franklin was received with unstinted applause, and the other artistes were similarly rewarded.

The prize essay competition promoted by the Manchester Pharmaceutical Association in connection with the Chemists' Exhibition has resulted in the following awards :—*Class I* : (1) Mr. Henry A. Chipperfield ("Lector"), Boroughbridge, Yorks; (2) Mr. James Valentine ("Jacobus Paulus"), 127 Picton Road, Wavertree, Liverpool. *Class II* : (1) Mr. Bernard Platt ("Prophecy"), 3 Longton Road, Irlams o' th' Height, Manchester; (2) Mr. Ernest Carr ("Nux Vomica"), 269 Liverpool Road, Southport.

Mr. W. J. U. Woolcock, President of the Society of Chemical Industry, addressed the Manchester section of the Society, on October 3, on the interrelation of chemistry and industry. Several members of the Manchester Pharmaceutical Association accepted an invitation to attend, swelling the audience to one of considerable dimensions. Dr. Herbert Levinstein, who took the chair, introduced the President as a great personality and an able organiser who had rendered distinguished service to the chemical industry of this country. His work at the Association of British Chemical Manufacturers had been the main factor in its development. It was a striking tribute to the authority and usefulness of the A.B.C.M. that at Wembley the British chemical industry and chemical science united for the first time in producing a combined display. Mr. Woolcock, in the course of his address, urged the necessity for complete co-operation between the scientist and the industrialist. Joint meetings of local branches of the various societies had assembled together the research chemists in university laboratories and works laboratories, the chemists from chemical factories, and the industrialists who were members of the Society of Chemical Industry. This, to Mr. Woolcock's way of thinking, was all to the good. He particularly welcomed there that evening the members of the Manchester Pharmaceutical Association.



Photo]

WINNING WINDOW-DISPLAY, MANCHESTER CHEMISTS' EXHIBITION

[Cleworth]

Left to Right : (1) Miss Nellie Gregory, 5 Frederick Street, Cheetham, Manchester (£5 5s.); (2) Mr. Ughtred Boocock, Thornleigh Road, Wilbraham Road Estate, Manchester (£3 3s.); (3) Mr. Harold Yates, 67 Market Street, Shaw, Oldham (£2 2s.).

Medical Exhibition

ASSUMING that the London Medical Exhibition, which is being held at the Central Hall, London, S.W., from October 6 to 10, furnishes an indication of the trend of medical treatment, it would seem as if dietetics (both in respect of adults and infants) and organotherapy are in greatest favour at the moment. Surgical apparatus is well represented, and chemical products are almost as prominent as at chemists' exhibitions. The following paragraphs indicate the chief stands of pharmaceutical interest :—

ALLEN & HANBURY'S, LTD., have again arranged such a comprehensive display of their specialities that, although intended for doctors, it is of equal interest to chemists, embracing as it does insulin, foods, pastilles, organo-therapeutic products, "Osmo" kaolin and calamine, vaccines and an array of surgical instruments.

THE ANGLO-AMERICAN OIL CO., LTD., impress upon the visitor the importance of administering liquid paraffin of the correct viscosity, such as Nujol, and the wide range of viscosities all answering the B.P. tests is effectively demonstrated. Half a dozen tubes nearly full of the paraffins are mounted on a stand, and on turning the tubes upside down it is noticed that the air bubble in the thinnest paraffin has risen to the top of the tube almost before the bubble in the thickest has started on its journey.

BOOTS PURE DRUG CO., LTD., have an exhibit which could not fail to arrest the attention of either medical man or chemist. The articles are arranged in groups, such as synthetic and medicinal chemicals, compressed tablets, pharmaceutical preparations, capsules, pastilles and dressings. The rigid analytical control and high quality maintained in respect of their drugs and chemicals is strongly urged. Insulin, naturally, occupies a prominent position.

BRITISH COLLOIDS, LTD., have an addition to their products which is of considerable interest to chemists. This is ichthylol (collosol), which is prepared from fossilised marine deposits found in Norfolk, thus rendering available a natural British preparation which is considered greatly superior to the synthetic. The ichthylol is packed in most of the forms in which it is employed medicinally.

BRITISH DYESTUFFS CORPORATION, LTD., have a most interesting exhibit from a chemical point of view, showing how dyestuffs are applied to medicinal use. For instance, the lethal action of Auramine on paramoia in dilutions of 1 in 20,000 of dye in water is ably demonstrated. The company also show a large number of fine chemicals, a complete range of indicators and a variety of microscopic stains.

BURROUGHS WELLCOME & Co. are enthusiastic over the introduction of insulin in tabloid form (*C. & D.*, October 4, p. 496), though this is by no means the only side of the firm's activities which is demonstrated. Serums, vaccines, medicinal plants grown on the Wellcome farm in Kent, first-aid outfits and gland products combine to show the scope of the research work continually being carried on.

THE HOFFMANN-LA ROCHE CHEMICAL WORKS, LTD., extol the virtues of Allonal, a hypnotic and analgesic which is a combination of a barbituric acid derivative with amido-pyrin. It is hailed as non-narcotic and non-habit forming. Packed in bottles of 12 and 100 tablets, the dose is one to two tablets as a sedative and two to four tablets as an analgesic. Most of the other products displayed, such as Airol, Digalen and Omnopon, are too well known to require further description.

W. MARTINDALE has a display also of special concern to the chemist. Prominent positions are occupied, as would be expected, by the latest edition of the "Extra Pharmacopœia" (*C. & D.*, October 4, p. 494) and Steriloids, the new form of hypodermic medication. These are surrounded by a series of gland preparations and numerous specialities, such as Aspriodine, emetine periodide, Magisal and Sedasprin. Considerable interest also centres in the chaulmoogrates and morrhuates.

MENEY & JAMES, LTD., show, among other lines, Iodex and Iodised throat tablets. The latter, containing iodine, pulv. cinnam. co., acid. benzoic, menthol, ol. cassie and

succ. glycyrrh., should be most useful in bronchial affections.

OPENHEIMER, SON & CO., LTD., call particular attention to the value of organo-therapeutic preparations when administered in palatinoid form. Roboleine also occupies a prominent position at their stand and is well backed up by other of the company's well-known lines, including pinheroïn and grindeline.

PARKER, DAVIS & CO. have recently introduced under the name of Dibromin a powerful germicide. It is slightly soluble in water and more so in glycerin or alcohol, but insoluble in oils. The action of Dibromin is analogous to chlorine, but it is stated to be more suited to general use than such compounds, also solutions of it are more easily prepared and are more stable. Many of the firm's well-known products, including gland preparations and vaccines, are also on view.

THE SANDOZ CHEMICAL CO., LTD., confine their exhibit to half a dozen lines—Scillaren, a squill product; Fermerin, an ergot preparation; Felamine, composed of biliary acids of ox gall and hexamine; Ipecapan, containing the alkaloids of ipecacuanha and opium; Matinol, a dietetic and digestive biscuit; and Bellafofine. The last-named contains the total alkaloids of belladonna leaves combined with malic acid, and is claimed to have decided advantages over extract of belladonna and atropine.

G. H. ZEAL, LTD., show a variety of clinical thermometers, each class having some special characteristic, such as the Repello, which does not require shaking down; or the Aseptic, which fits into an outer container like a stoppered bottle containing an antiseptic fluid. The graduations are on the container, the correct reading being obtained by synchronising a spot on the thermometer with a spot on the container.

Food Products

The importance apparently attached to diet in medical treatment has been referred to above, and it will be gathered from the following notes that the practitioner has little cause to complain of lack of efforts on the part of the manufacturer to meet his requirements. AMBROSIA, LTD., not only show dried milk but call attention to some of the proprietary articles into which their product enters, such as chocolate, rusks, and virol and milk. BOVRIL, LTD., inform us that their preparations remain as popular as ever, and it is anticipated that sales during the winter will be equal to, and probably exceed, those of previous years. CADBURY BROS., LTD., extol the nourishing virtues of cocoa and chocolate, both of which are so widely known. FOOD PRODUCTS, LTD., invite medical "dieticians" to consider the merits of Bovo-Lactin, which is claimed to be the perfect concentrated food, and of which there is a variety suitable for administration in almost any illness. GENATOSAN, LTD., in addition to their other preparations, exhibit Sanatogen and call attention to its value in neurasthenia, anaemia, and convalescence. GLAXO diet is shown in all its forms, while the beneficial effect of an anti-rachitic extract of cod-liver oil, called Ostelin, is demonstrated by a number of x-ray photographs. Malted milk is exhibited at two stands—that of HORLICK'S MALTED MILK CO., in the Upper Hall, and that of THEW, HOOKER & GILBEY, LTD., in the Lower Hall. Among the products displayed by KEEN, ROBINSON & CO., LTD., are the Patent Barley and Groats and Almata, a food stated closely to resemble human milk, and contain all the vitamins essential to healthy development. Maltine and its combinations, shown by the MALTINE MANUFACTURING CO., LTD., have long been recognised as lines in steady demand. MEAD JOHNSON & CO., for whom the London agents are the American Drug Supply Co., Ltd., point out that too much attention cannot be paid to the individual requirements of babies in the way of food; consequently their Dextri-Maltose and other diet materials are sent out with feeding directions, and are only advertised to medical men, who have thus full scope in regulating their formulas.

MILKAL, LTD., inform us that their dried milk is produced by a spray process which has important advantages in that the fat is retained in its globular form and none of the albumin is coagulated. PRIDEAUX'S PURE CASEIN & LIFE Food Co., LTD., are showing Dorsella milk food and

Casumen milk protein for diabetic and neurotic cases. This is free from sugar and starch. Among the lines displayed by SAVORY & MOORE, LTD., their food, peptonised cocoa and milk and peptonised milk form prominent features. SISTER LAURA'S INFANT & INVALID Food Co., LTD., point out how the demand for the food continues to grow: it is so easily assimilated that it can be given to the youngest babies with undiluted cow's milk. TRUROOD, LTD., are emphasising how closely their humanised milk, when reconstructed by the addition of water, approximates to breast milk. Not only is the composition the same but, owing to the process by which it is prepared, the lactalbumin is present in the same condition and the fat contents are perfectly distributed and emulsified. Virol and virolax, the specialities of VIROL, LTD., are already well known, and the same may equally be said of the product of VITMAR, LTD., and the Cow and Gate Food of the WEST SURREY CENTRAL DAIRY CO., LTD.

Other stands of pharmaceutical interest include: ANGIER CHEMICAL CO.; ANGLO-FRENCH DRUG CO., LTD.; ARMOUR & CO., LTD. (gland products); BENGUE & CO.; BRITISH ALAKOIDS, LTD. (T.C.P., a germicide); BRITISH ORGANOTHERAPY CO., LTD.; G. W. CARNICK & CO.; DE VILLETT CO., LTD. (atomisers); DENVER CHEMICAL MANUFACTURING CO. (antiphlogistine); ENDOCRINES, LTD.; J. C. ENO, LTD.; FASSETT & JOHNSON, LTD. (dressings); D. & W. GIBBS, LTD.; C. J. HEWLETT & SON, LTD.; INGRAM & ROYLE, LTD. (mineral waters); IRVING'S YEAST-VITE LABORATORIES; KOLYNOS, LTD.; MAY & BAKER, LTD. (chemicals); NEWTON, CHAMBERS & CO., LTD. (Izal); PEPSODENT CO.; PINOLEUM CO. (inhalant); JOHN W. ROYLE, LTD. (mineral waters); SCHOLL MANUFACTURING CO., LTD.; THERMOGENE CO., LTD.; CHARLES ZIMMERMANN & CO., LTD. (Idozan and Asthmolysin).

Bonding Goods Liable to K.I.D.

In August 1923 the British Chemical and Dyestuffs Traders' Association, Ltd., submitted to H.M. Treasury a memorandum outlining proposals for the introduction of a system of bonding goods liable to Key Industry Duty. For twelve months negotiations have been going on and the Association is now advised that a Treasury Order has been signed authorising the bonding of such goods. The chief points of benefit are:—

Re-export.—Stocks in bond will be immediately available for re-export without the doubt and difficulty of obtaining "drawbacks."

Home Trade.—Bulk supplies can be imported and put into bond, and the importer will not be called upon to pay duty until the goods are required and taken out of bond.

Customs are now drawing up instructions as to the procedure to be followed, and the Association will forward particulars in due course. The system will come into operation at an early date. It is considered the facilities obtained by the Association—no other organisation dealt with the matter—will prove of practical benefit.

The following is a copy of the memorandum referred to above:—Importers of goods scheduled under Part I of the Safeguarding of Industries Act, 1921, have to pay the duty of 33 $\frac{1}{3}$ per cent. at the time the goods are landed and cleared at H.M. Customs.

This procedure is governed by Section 39 of the Customs Consolidation Act, 1876, whereby H.M. Treasury are given power to decide whether goods liable to import duties shall be allowed to be bonded or not.

The Treasury Order in respect of the Safeguarding of Industries Act, 1921, stipulated that the duties should be paid at the time of landing and clearance of the goods.

During the period this Act has been in force it has been found that the present method of payment of duties is having a detrimental effect on commerce. The following points were submitted in support of this view:—

1. Prior to the introduction of the Safeguarding of Industries Act and the import duties it entails, merchant importers were in the habit of holding as stocks bulk supplies of goods, and were thus enabled to meet both home and overseas demands without delay. The re-exportation aspect was then of very considerable importance, it being estimated that quite half the volume of imports now liable to Key Industry Duty were, when previously allowed free import, disposed of by way of re-export sales. Careful and exhaustive enquiry has been made as to what effect the

payment of import duties under the Act has had on this important branch of the chemical trade, and it has been found that:—

(a) The difficulties and uncertainty of obtaining "drawbacks" of duties paid at the time of importation make it impracticable for merchants to compete in overseas markets. For instance, unless a merchant holding stocks of goods on which duty under this Act has been paid can ascertain definitely and quickly whether he can recover such duty upon re-exportation, he is unable to arrive at his selling price, and is thus prevented from competing for overseas business. It is certain that if he does not allow for a "drawback" his price to the foreigner would not be competitive.

(b) That on account of this position the volume of re-exports of goods liable to Key Industry Duty has fallen away in a very deplorable manner, and merchants are continually complaining that they have, and still are, losing such business, and state that it is largely due to the disadvantages arising out of the present method of collection of duties levied.

(c) Some firms, in an endeavour to overcome this barrier to re-export trade, are now holding stocks at Continental ports and meeting demands in that way. This must entail loss of freights to the shipping interests, loss of employment at the docks, in warehouses, and in various other directions. It has been found that in this way only is it possible and practicable for merchants in this country to hope to compete successfully in overseas markets.

(d) Claims for "drawbacks" usually take a considerable time to settle, and in many instances where the goods in question have, since their importation, changed hands one or more times, it has been found almost impossible to satisfy H.M. Customs as to their identity. While the merchant is attempting to overcome these difficulties the overseas business is lost.

2. As regards sales of dutiable goods in this country, merchants, in order to carry on their business as economically as possible and to fulfil their function as distributors, are in the habit of importing in bulk quantities. Such goods are gradually liquidated, and in many instances the duty paid at the time of importation may not be recovered in full for twelve months or even longer. For instance, an importer of dutiable goods to the value of £3,000 has to pay £1,000 as duty at the time of importation, and it is not exceptional for the period mentioned to elapse before the whole of the importation is sold and the duty thus recovered. In this way considerable amounts of capital are locked up, to the detriment of the merchant and trade in general.

It is submitted that, in the case of re-exports, if merchants were given the opportunity of putting goods liable to Key Industry Duty into bonded warehouses at the time of importation and thus be relieved of the immediate payment of duty and the uncertainty of obtaining drawbacks, the trade in re-exports of chemicals would be materially facilitated and would undoubtedly increase in volume.

In the case of sales to buyers in this country, duty would only be paid at the time they were taken out of bond for actual delivery. Under this arrangement comparatively large amounts of capital would be at the importers' disposal, instead of being locked up.

Consideration has been given and enquiry made as to whether there would be objection on the part of warehouse interests to accepting goods scheduled under Part I of the Safeguarding of Industries Act, on account of their dangerous character in themselves or when stored with other goods. It appears that as these materials are packed in such a manner as to satisfy shipping lines, who accept them at ordinary rates, and, for the same reason, insurance of such goods is effected at low rates, it is believed that warehouse interests would approve of the suggested system of bonding.

It is therefore suggested that, as the present system of collection of duties under the Safeguarding of Industries Act, 1921, Part I, is doing great harm to commerce, especially in re-exports, the Order made by H.M. Treasury at present in force should be suitably amended so as to allow dutiable goods to be put into bond.

EXTENSION OF THE POISONS SCHEDULE SUGGESTED.—At a recent inquest," reports the "City Press," Dr. F. J. Waldo, the City of London coroner, said that "he had always recommended that secret remedies containing a poison or poisons should be obtainable by the public only on a prescription signed by a legally qualified medical practitioner, as had been the practice for cocaine, etc., since the advent of the Dangerous Drugs Act, 1921. Dr. Waldo added that for years past he had pressed for alterations of, and additions to, the Poisons Schedule, especially in the veronal group of poisons. . . . Some revision of the Schedule on lines suggested by him was about to take effect, but he hoped that the Pharmaceutical Society, irrespective of mere trade considerations, would represent to the Privy Council the urgent need for still further extension of the Poisons Schedule."

Artistry in Perfume

IN the palatial building in Regent Street known as Walmar House, close to Oxford Circus, a member of the C. & D. staff saw, the other day, the beginnings of a fresh development of a perfume business already worldwide in its scope. Coty (England), Ltd., it was learned in the course of a chat with Mr. C. C. Valli, the London manager of the company, is the "baby" of Mr. Coty's organisations; but a number of representatives have been appointed for this country, and Messrs. Coty have arranged full displays of their specialities in several of the larger towns and cities of the kingdom. The story of the past eighteen years of Mr. Coty's activities, when it comes to be told, will prove to be one of the romances of commerce—and something more. In the showrooms at Walmar House there are bottles of perfume bearing the name of the designer of the bottles in the glass itself—a touch that at once reveals the imaginative artist. It is certainly not by chance that the output of the well-known Coty face powders has reached (figures were given our representative) its present striking proportions. A remarkable feature is that the expansion of the business, first in France, and next in the United States, has been achieved on a consistent policy of "the best, the very best, in quality and in style." Such a policy is not easy to carry out in actual practice; but Mr. Coty has never allowed pressure from sales managers, agencies, seasonal demand or the urgency of any market to interfere with the paramount claims of the system laid down by him. First the perfumes themselves, then the bottles—to-day he owns four bottle factories, one of which is devoted to finishing processes—then the boxes (again a private factory), next the *coffrets*, *écrins*, and so forth, and lastly the labels, with all the advantages of a self-contained industry. Visitors who have been to the headquarters at Suresnes are loud in their praises of the spaciousness, method and comfort of this model organisation. No one need be deterred from calling at Walmar House by the fact that a temporary front proclaims preparations not yet complete. Although Regent Street may not yet have caught up New York (where, including a factory staff, 1,500 people are employed), visitors will find everything carried out, even to the office fittings, in the Coty style evolved for France and the United States; and this comprises a high tradition of courtesy. Chemists in search of genuinely artistic perfumery for Christmas or other window-dressing may with advantage investigate the Coty series for themselves: possessing a *cachet* reminiscent of the most famous shopping streets of Paris, these products strike a note of distinction in any window in which they appear.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (Is. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Apparatus for Making Infusions.—An apparatus for making decoctions, infusions, etc., consisting of a boiler connected with a receptacle provided with a cover to receive the product to be extracted, and a whistle which is sounded by the steam evolved from the residual water after delivery of the water required to produce the infusion. (L. M. Pouget. 221,264.)

Preserving Eggs.—The eggs are simultaneously sterilised and the shell pores hermetically sealed by immersing the eggs in a hot sealing solution which consists of one or more oils and one or more waxes and/or gums or resins, the waxes and gums or resins being added to the oil in such proportion that they become entirely soluble or nearly so at the temperature employed, which is approximately 230° F. to 260° F., the immersion being from four to fifteen seconds. Ingredients which have given good results are: Refined mineral oil, s.g. 0.85 or over; Japanese or palm waxes; a vegetable gum or resin such as gum dammar. (G. P. Lewis. 220,339.)

Personalities

MR. D. J. BAILEY, chemist and druggist, Blackpool, vice-chairman of the local Insurance Committee, is seeking municipal honours at the next election.

MR. R. D. SILVER, chemist and druggist, Kettering, who has been undergoing treatment at St. Mark's Hospital, London, E.C., since September 8, hopes to return home in the course of a fortnight.

MR. F. CECIL FOSTER has joined the travelling staff of Mr. Thomas Swales, chemists' sundriesman, Leeds, and will cover the West Riding and N.E. Lancashire. His address is 193 Brunshaw Road, Burnley.

MR. JOHN GIBSON, F.C.S., chemist and druggist, Hexham, has been invited by the Durham and Northumberland Association in London to lecture at Anderton's Hotel on October 15. His subject will be "Rambles through Northumberland."

MR. R. L. GIFFORD, J.P., Ph.C., Blackburn, was one of the magistrates in attendance at the borough police court on October 6, when the case against a herbalist, reported on another page of this issue, was in the list. Mr. Gifford, however, withdrew when the case was called.

ON the occasion of the visit to Exeter of the Mayor of Montdidier, the French town adopted by the city, he was welcomed by Mr. Philip F. Rowsell, F.C.S., Mayor of Exeter, who also officially attended the ceremony of placing a palm on the local war memorial by the visitor. A mayoral reception held by Mr. and Mrs. Rowsell on October 3 was attended by many distinguished visitors, including the Mayor of Montdidier.

MR. T. W. LONGDIN, chemist and druggist, Scarborough, has had the curious experience of receiving a letter, from a Swedish address, claiming reward for the finding of a piece of a Scarborough calendar on which the following was written: ". . . The finder of this note will be rewarded £100 if returned to the police station or to Mr. Longdin, chemist, Scarborough; urgent." A local paper suggests that the affair is a hoax.

MR. W. W. SAVAGE, Ph.C., "Ellerslie," Brighton, was, on October 2, presented by the Pier Ward Ratepayers' Association with a framed testimonial and an album containing the autographs of the subscribers. The presentation was made in recognition of services as the representative of the ward on the Brighton Town Council for thirty-one years. Mr. Savage, now in his eighty-fifth year and still vigorous, was the first chairman of the Ratepayers' Association sixty years ago.

MR. A. T. BAILES, chemist and druggist, President of the Bradford and District Branch of the Pharmaceutical Society, was born at Stockton-on-Tees. He served his apprenticeship to T. Brayshay & Son, and at the completion of this period was for a time with Taylors' Drug Co., Ltd., in Leeds. On passing the Qualifying examination, Mr. Bailes went to the Harrogate branch of the same company, and subsequently joined J. Savage & Co., Ltd., Bradford. In 1921 he acquired the business of the late Mr. W. W. Stead, chemist and druggist, 1252 Leeds Road. From 1918 to 1922 he held the office of secretary of the Bradford Pharmacists' Association, and at the present time holds a similar position in connection with the local branch of the Retail Pharmacists' Union. In 1906 he married Miss M. Cobb, daughter of Mr. G. M. Cobb, chemist and druggist, Halifax. Outside business, one of his greatest interests is music, and for many years he has been connected with a local choral society.

CHEAP GERMAN BISMUTH SUBNITRATE.—The Berlin "Apotheker-Zeitung" of September 27 states that a Rhenish factory is offering bismuth subnitrate at a low price, which on examination has been found to possess a high content of tellurium. On applying the stannous chloride test of the German pharmacopœia, it yields a black mixture, which on standing deposits an appreciable black precipitate of metallic tellurium, whereas with a pure product the mixture should not exhibit more than a greenish tint.

Births

Notices for insertion in this column must be properly authenticated.

MELVILLE.—At 10 John Street, Bridgeton, Glasgow, on October 4, the wife of James Tasker Melville, chemist and druggist, of a daughter.

ROSEKILLY.—On October 1, the wife of Mr. Rosekilly (assistant sales manager, The Era'smic Co., Ltd.), of a daughter.

Marriages

ASHFIELD—KEATINGE.—At St. Thomas's Church, Rhyl, on October 6, by the Ven. Archdeacon Lloyd, Percy John Ashfield, J.P., C.C., chemist and druggist, to Gwendoline Margaret, daughter of the late Captain E. W. and Mrs. Keatinge.

ASHWORTH—ASHFIELD.—At St. Thomas's Church, Rhyl, on September 29, by the Rev. J. M. Richards, assisted by the Rev. J. D. Jones, Arthur Edmund, elder son of Mr. and Mrs. Leonard Ashworth, Rhyl and Nottingham, to Thelma Whittington, only daughter of Mr. Percy Ashfield, J.P., C.C., chemist and druggist.

CROSBIE—CARTWRIGHT.—At the Palace Hotel, Edinburgh, on October 1, William Brown to Eva, eldest daughter of Mr. B. Cartwright, chemist and druggist, Galashiels.

Deaths

ANDERSON.—At Strathmore, 62 Priory Road, West Bridgford, Nottingham, on October 2, suddenly, Mr. James Grant Anderson, retired chemist and druggist, aged sixty-three.

HEDGES.—At Weston-super-Mare, on September 22, Miss Mary Elizabeth Hedges, sister of the late Mr. W. R. Hedges, chemist and druggist, Birmingham, aged ninety.

HEHNER.—In South Africa, on September 9, Mr. Otto Hehner, F.I.C., F.C.S., late of 11 Billiter Square, London, E.C.3. Mr. Hehner was born in Germany in 1853, and at the age of twenty became an assistant at the Andersonian College, Glasgow. In 1877 he established himself as a consulting chemist in London, where, specialising in the analysis of foods and waters, he became widely known. Mr. Hehner was President of the Society of Public Analysts in 1891, and held office during three periods as Vice-President of the Institute of Chemistry; he was also an original member of the Society of Chemical Industry, and was elected chairman of the London section in 1900. His published monographs cover a wide field.

GREENWOOD.—At Bolsover, on October 7, after a long and painful illness, Mr. Solomon Greenwood, chemist and druggist. Mr. Greenwood served his apprenticeship to Mr. Boar, Wisbech, and qualified in 1894. He leaves a son and a daughter.

HODKINSON.—At Ashton-in-Makerfield, on September 29, Mr. Horace James Hodkinson, chemist and druggist, aged thirty-two. (See p. 520.) The funeral took place at St. Thomas's Church, Ashton, on October 2, and among the wreaths was one from the local pharmacists.

HUGHES.—Recently, Mr. Thomas Hughes, chemist and druggist, for many years in business at 4 Ogwen Terrace, Bethesda, aged seventy-six.

MC CONKEY.—At 31 Thorndale Avenue, Belfast, on October 4, Mr. John McConkey, chemist and druggist. Mr. McConkey was registered by the Pharmaceutical Society of Ireland in 1891.

ROWETT.—At 9 Hyde Park Terrace, London, W.2, on October 1, Mr. John Quiller Rowett, LL.D., aged forty-nine. Mr. Rowett was the founder of the Rowett Institute of Research in Animal Nutrition in connection with Aberdeen University, and contributed to the endowment of dental research at Middlesex Hospital, London. He

was mainly responsible for the expenses of the Shackleton expedition of 1921-22.

SMITH.—At Roseville, Sydney, New South Wales, on September 19, Mr. Henry George Smith, late assistant curator and economic chemist at the Technological Museum, aged seventy-three. In collaboration with Mr. R. T. Baker, Mr. Smith carried out a series of investigations, extending over thirty years, on the characteristics of Australian essential oils and other products of the Commonwealth. The chief outcome of this research was the volumes entitled "A Research on the Eucalypts and their Essential Oils" and "A Research on the Pines of Australia." Mr. Smith also contributed numerous papers to scientific journals.

POLLARD.—At his residence, Orkly House, John Street, Ryde, on October 2, Alderman Henry Hindes Pollard, J.P., C.C., retired chemist and druggist, aged eighty-eight. Mr. Pollard, who was a native of Thetford, Norfolk, was educated at Kingswood, and served his apprenticeship to his brother at Nailsea. After gaining wider experience in London and elsewhere, he commenced business at 168 High Street, Ryde, in 1867. Endowed with a striking personality, Mr. Pollard became one of the best known men in the Isle of Wight; he served on the Ryde Town Council for fifteen years, and was for some time a member of the School Board.

In 1894 he was appointed a magistrate, and four years later he was elected an alderman of the County Council. Alderman Pollard retired in favour of his third son, Mr. E. W. Pollard, B.Sc., Ph.C., in 1911, and the business was subsequently transferred to new premises. His eldest son, who died in 1896, was a doctor of science of the University of London; and the second son, Mr. A. F. Pollard, M.A., is Professor of English History and chairman of the Institute of Historical Research in the same university. Alderman Pollard emerged from his retirement in order to be present at the opening of the Pharmaceutical Society's School session in 1919, when he moved the vote of thanks to Mr. Woolcock (a former apprentice of his), who had delivered the address; and the interest of the speech was heightened, the C. & D. of October 4, 1919, records, "by the sincere tribute that Mr. Woolcock had taken occasion to pay him." The surviving members of the family, in addition to the two sons referred to, are a widow and three daughters. Among the floral tributes at the funeral, which took place on October 6, was one from the Isle of Wight Pharmacists' Association.

WAECHTER.—At The Terrace House, Richmond, Surrey, on October 3, Sir Max Waechter, D.L., J.P., chairman of Bessler, Waechter & Co., chemical and general merchants, aged eighty-seven.

WHINERAY.—At 7 Etloe Terrace, Church Road, Leyton, London, E.10, recently, Mr. Edward Whineray, chemist and druggist, aged sixty-two. Mr. Whineray was one of the founders of the old Chemists' Assistants' Union, formed in London in 1898, and became its first President. He subsequently joined W. E. Lowe & Co., Ltd., chemists, 8 Stafford Street, W.1, as managing director, and in that capacity was known and esteemed by a distinguished clientele. The sympathy of a large circle of friends will be extended to his widow. The interment took place at the City of London Cemetery, Ilford, on October 2.

WILLIAMS.—On October 7, after long suffering, Ellen, the beloved wife of Mr. John Williams, 11 Shirley Road, Cardiff (South Wales representative of Evans Sons Lescher & Webb, Ltd.).



MR. H. H. POLLARD, J.P.

Trade Notes

OWN-NAME SOAP.—R. F. White & Co., Ltd., 34 Victoria Street, London, S.W.1, invite applications for samples and book of wrappers of the own-name soap which they offer to chemists.

MR. A. C. HENRY, 19 St. Dunstan's Hill, London, E.C.3, now holds stocks of dyestuffs, pharmaceutical and bacteriological products manufactured by Kalle & Co., Biebrich on Rhine.

"**SANITAS**" TOILET ROLLS are now price-protected under the scheme of the Proprietary Articles Trade Association. The retail price is 9d., the trade terms being given in the advertisement of The "Sanitas" Co., Ltd.

VINOLIA PRICE LIST.—A Christmas perfume list is issued by the Vinolia Co., Ltd., Lever House, Blackfriars, London, E.C. At this address a special showroom has been opened, where chemists may see the various products.

SAL HEPATICA.—In connection with the press advertising propaganda of Sal Hepatica, the Bristol-Myers Co., 112 Cheapside, London, E.C.2, give a reduced facsimile of the page which is appearing in the "Daily Express" of October 17.

WINTER BROCHURES.—Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, issue brochures dealing with hot-water bottles and packed articles suitable for winter trade. Chemists who have not received copies should apply for them.

FRENCH PROPRIETARIES.—Wilcox, Jozéau & Co. have an announcement regarding the French proprietary articles for which they are the sole distributors in this country. These have a special English wrapper which affords a guarantee of genuineness.

"IDEAS IN LABELS" is the title of a book of sample labels issued by James F. Wilkinson, chemists' printers, Pendleton, Manchester. The book contains an excellent variety of modern labels and gives ideas in labels to those desiring up-to-date printing.

CLINICAL THERMOMETERS.—Britton, Malcolm & Waymark, Ltd., 38 Southwark Bridge Road, London, S.E.1, offer an interesting series of clinical thermometers. With an order for six dozen thermometers a show-case is offered which is a safe storage for stock as well as an effective showcase.

"**THE EXTRA PHARMACOPEIA.**"—A striking advertisement of the new edition of Martindale and Westcott's "Extra Pharmacopœia" appears in this issue. It gives a useful synopsis of the changes that have taken place in the book, supplementing the notes printed in the C. & D. last week.

TOILET BRUSHWARE.—Henderson Bros. & Co., Ltd., The Hygex Brush Works, 20 Tyndale Place, Upper Street, London, N.1, have an announcement regarding new channels for the sale of their toilet brushware. A monthly house-organ, "Bristles," is sent to all chemists who apply for it. We have had the opportunity of examining samples of the products of this house and find them high-grade articles suitable for chemists' trade.

PARFUMERIE L. T. PIVER, 102 Dean Street, Oxford Street, London, W.1, announce a reduction of the retail price of Le Trèfle Incarnat, Azuréa, Floramye and Pompeia series face powders to a standardised uniform rate of 2s. 6d. per box. There is also a 1s. 9d. size. These powders are in the new packing which was introduced on the occasion of the 150th anniversary of the foundation of the house of Piver.

"**ALLENBURY'S**" CALENDARS.—We have received from Allen & Hanbury's, Ltd., Bethnal Green, London, E.2, a copy of the "Allenburys" Calendar for next year (15 in. by 11 in.), the centre panel of which consists of a reproduction in colours of the picture entitled "A Dillar a Dollar," together with the nursery rhyme commencing with the same words. The colour-scheme is, as usual, an attractive one, and overprinting is carried out without extra charge for quantities of three dozen and upwards. Envelopes are also supplied at nominal rates.

PHOTOGRAPHIC CHRISTMAS CARDS.—Houghtons, Ltd., High Holborn, London, W.C.1, have sent us samples of their calendars, Christmas cards and "Auto-Photo" letter cards. The first-named are available in three colours, grey, brown and white with red edging, and have a monthly tear-off portion. The Christmas cards, which are made from matt art boards, have a suitable greeting printed in two colours on the outside, and the inside is arranged to take a slip-in print. They are supplied in packets, each containing three brown and three white cards, and, like the calendars, with envelopes to fit. The letter-cards are in the form of a slip-in mount, above which is printed a seasonal greeting. The mount portion is perforated and can be detached. The Mascot photo frame is now available in a new colour.

LANGLEY'S LATEST LUBRICANTS.—In recent issues of the C. & D., Langley Smith & Co., 14-20 St. Mary Axe, London, E.C., have been drawing the attention of country chemists, who deal in such articles, to their "Langol" brand motor oils. A special study has been made of motor oil's with the result that a type to meet the requirements of every description of car—motor cycle, pleasure cars, commercial vehicles, etc.—has been evolved. The quality, it is claimed, is equal to that of well-known proprietary articles, and prices are considerably lower. Messrs. Langley Smith have no travellers—holding the view that a traveller would add about 6d. per gallon to the cost of the oil—and deal direct with chemists. There is an attractive scheme, offered to those retailers who undertake to buy all their ordinary motor oils from the firm for 12 months, of special terms of 10 per cent. discount. Full particulars may be obtained at the above-mentioned address.

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SANCTA SIMPLICITAS.—“The magistrate, having ascertained from Dr. Dudfield, the medical officer, that annatto [annatto] was made from carrots and was not injurious to health, said that the defendant must not put any more carrots into his milk.”—“The West London Observer.”

Observations and Reflections

By Xrayser II.

Your Admirably Illustrated Account

of the Manchester Chemists' Exhibition has been supplemented for me by a private report from a friend who was there. Like your own reporter, he seems to have noted an improvement in the nature of the exhibits over those of the last exhibition, though there were not quite so many of them. He was particularly interested in Messrs. Woolley's stalls (especially the one devoted to preparations of mercury), which were, he says, "an eye-opener." The exhibits of Messrs. Jewsbury & Brown and of Messrs. Allen & Hanburys he also praises highly, the former, I understand, designed by Mr. Kirkby, the latter under the charge of Mr. Henry. The opening ceremony he did not think impressive, for which he blames the acoustic properties of the building. My friend also says the attendance of the general public on the day he was there was very poor, for which he blames the "short-sighted policy" of the promoters in not advertising it better. I am amused by what he says of Manchester folk in general: "A lot of depressed, badly-dressed people." It is but fair to add that he says the same criticism was made by an American visitor not long since of the people of his own city, not a hundred miles from Manchester. If this is due, as my friend opines, to the hard times through which we are passing there is the more honour due to Manchester for giving us so good a show.

Mr. Cofman-Nicoresti's Explanation

that the qualification for the proposed Fellowship of Chemist-Analysts is the Major diploma of the Pharmaceutical Society somewhat qualifies my objection to the proposal; but there was no hint of it in Mr. Cofman-Nicoresti's letter of July 19, which appealed to "all qualified pharmacists," nor in the article founded upon this letter in the *C. & D.* of September 20, in which it was stated that members of the new association were to be "qualified chemists." But even as now explained the proposal is open to most of the objections I brought against it; and I still hold that in effect it would be inimical to the Society, since it would be a standing reproach for failure to provide an education for its members sufficient for the requirements of their position as dispensers of medicine. It may be that the Society actually has failed to do this, but it seems to me that loyal members should rather strive to force it to remedy this defect than set up an independent body to supply what is lacking in it. To say that the "Major" does not at present offer any prospect to its candidates is beside the mark. There is no reason why it should not be transformed from the laughing-stock it now is to an instrument of advancement equal or even superior to the proposed association. All that is needed is the determination that it shall be done, and I make bold to add that if it is not done the Society will deserve the contempt which the formation of a new body to do the work it should have done will bring upon it in the minds of other chemical institutions. It will confirm the impression, already too common in such quarters, that as regards education the Society is little more than.

An Organised Hypocrisy,

an impression not altogether without warrant in its past history. The Society started with an admirable educational scheme, and obtained its Charter by that means. It promised examinations and certificates of efficiency for apprentices, assistants (to be admitted as associates), and pharmacists in business, and down to 1852 or thereabouts it did in a measure fulfil its promise. But when I, in the 'sixties, became a registered student or apprentice of the Society after passing the necessary examination, I found the next step barred to me; the assistant's qualification had become a dead-letter, and has remained so ever since. Why? Echo answers "Why," but any candid critic of the Society could easily give the reason. Suffice it to say it was not zeal for education. The great defect of the subse-

quent Act of 1868 was that it ignored this middle step in the educational process, with the result that apprenticeship itself was often little more than a farce. The position of the chemist and druggist and the pharmaceutical chemist were secured, and that was enough. The case, however, is different now. If the "Major" remains what it is, or aims only at producing

A Gilt-Edged Pharmaceutical Chemist

with a university degree, the Society itself will suffer, and suffer in all its members. It is quite right that the Qualifying examination should be no more stringent than is necessary for the public safety, as otherwise it would act in undue restraint of trade; but beyond that there is no limit to what the Society might do if occasion served. Evidently it now not only serves but demands an upward movement. Mr. Cofman-Nicoresti must be thanked for making this plain, but he is on wrong lines in attempting to supersede the Society in its proper work. He may say that the improvement of the Major examination would be a step towards qualification for his association, but it would still leave pharmacists in the air if it did not qualify them for the work they set out to do. Why not leave the whole process in the Society's hands? Is it because men no longer have any hope or faith in the Society?

The President's Address

at the opening of the new session of the Society's School was in every respect admirable, but his historical retrospect needs supplementing in one or two particulars. The Minor examination of 1842 had only the name in common with that made statutory in 1868; it was, as I have said elsewhere, an examination for assistants, not for full-fledged pharmacists. The Modified examination of 1864, again, was not an examination admitting to the business of a chemist and druggist, but one admitting those already in the business to membership of the Society. It was, in fact, as a Lincolnshire peasant would say, "A money-makkin' job." Only seventeen candidates presented themselves in the first year, of whom fourteen passed. The Modified examination of 1868 was for those who had been for three years engaged in the practice of pharmacy as assistants to a chemist; it admitted them to full rank as chemists and druggists, but only to associateship, not membership, of the Society. Even this was objected to by "Minor" men, who were also denied membership until 1898. Mr. Ince even objected to the "Modified" men styling themselves "chemists by examination." So jealously, yet short-sightedly, did the Society guard the privileges of its members. For the rest of the address there is nothing but praise, and for its last half the praise could not well be too high. What Mr. Sargeant said of education in relation to "the artistry of life" was well and nobly said.

"Commonsense"

argues too much in the air (*C. & D.*, October 4, p. 514). He still speaks as if the stocking and exposing for sale of the advertised article does not give the proprietor "a better market." And he forgets or ignores actual conditions. Most of these advertised remedies are put forth in competition with articles of our own, or for which there is already an assured demand. Some of them are so advertised as to be a direct challenge to our calling itself. It is not uncommon to find these "ads." headed or enforced by such injunctions as "Don't use drugs!" and even when they do not go this length they tend usually to the depreciation of all other remedies and the discredit of us whose business it is to dispense medicines. Your correspondent writes, too, as if the advertised article were simply demanded. It is not usually so in my experience. I confess that my experience has been gained in old-established businesses only, where mutual confidence is a great factor in all transactions between customer and chemist. To be asked one's opinion of any new or unfamiliar "patent" is there an every-day thing.

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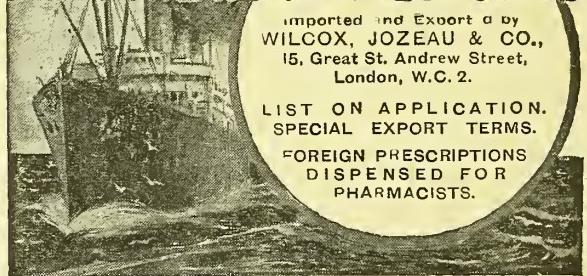
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What is an Alkaloid ?

A CRITIQUE from the editorial pen would appear to be an inevitable consequence whenever it is proposed to modify the Poisons Schedule. This really results from the time-honoured tradition of THE CHEMIST AND DRUGGIST

of examining the effect of suggested alterations and defining, if possible, the result, which is not always what is intended. The Poisons Schedule is a most important factor in the practice of pharmacy, being the reason for its existence as a profession for the protection of the public, and there is no scope for ambiguity in its incidence. Whereas a referee may discuss "what is a fine chemical," it will take a Court of Justice to decide "what is an alkaloid" if the resolution adopted by the Council of the Pharmaceutical Society on August 6 (*C. & D.*, August 9, p. 222) becomes law. Though the change is merely from "poisonous vegetable alkaloids" to "poisonous alkaloids," it alters the whole character of the definition, owing to removal of limitations which custom has sanctified, because it converts "alkaloid" into an omnibus description without accuracy in scientific language or practical usage. The most important alkaloids were discovered between 1805 and 1840, and the original meaning of the word "alkaloid" is bound up with the idea of an organic alkali representing the "essence" of the drug, and indeed our pharmaceutical nomenclature of alkaloids as active principles still retains this significance. "Organic" itself recalls the belief held widely before 1840 that there was little hope of ever discovering the difference between inorganic chemicals and substances which occur in organised vegetable and animal life. Alkaloids (especially the purine group) were found subsequently to occur also in the animal kingdom, so that the plant bases were distinguished as "vegetable" alkaloids. Many of the better-known alkaloids are toxic, so that they were naturally included among the poisons whose sale was restricted by the Pharmacy Act, 1866, to qualified chemists and druggists. So long as the chemical constitution of the alkaloids was unknown the designation of "poisonous vegetable alkaloids" sufficed, but the rise of organic chemistry as a science resulted in the discovery and synthesis of new bases which show every stage of transition between physiologically active alkaloids and inert nitrogenous protein like amino acids. From a chemical standpoint the description "alkaloid" was no longer tenable, but for statutory purposes it sufficed because only the better-known poisonous vegetable alkaloids are in public demand (e.g., strychnine, and formerly morphine, and cocaine). The difficulty of defining the chemical meaning of "alkaloid" has grown with the passing of time. Königs proposed to restrict the term to pyridine derivatives, but this is not sufficiently wide, as it rules out such important alkaloidal groups as those containing caffeine or pilocarpine. The latest definition available is that of Dr. T. A. Henry in "The Plant Alkaloids" (1924), which states:—

The term "alkaloid" is now generally understood as meaning a relatively complex basic substance occurring naturally and possessing some physiological action.

The proposed change in the Poisons Schedule is we believe intended to include the purely synthetic alkaloids such as psicaine, Merck (*C. & D.*, July 12, p. 62), but to our mind it is by no means certain that the alteration will have this effect. Thus it is possible to bring relevant arguments both for and against the ruling that psicaine is a poisonous alkaloid. Dr. Henry's definition excludes psicaine because it does not occur naturally, its base being iso-cocaine or *d*- ψ -cocaine, the dextrorotatory isomeride of naturally occurring *l*-cocaine. On the other hand, Liebermann and Geisel obtained iso-cocaine from coca, but it is now considered that this was formed by action of alkali on *l*-cocaine; still, this is a matter of opinion. Cocaine of commerce supplies a good argument for inclusion in the Poisons Schedule, because much of it is synthesised from ego-

nine. German cocaine originates mainly from Java coca leaves. These contain cinnamyl-cocaine chiefly, which is used as a source of *l*-ecgonine for making methylbenzoyl-ecgonine or cocaine. Certainly present custom includes such synthetic cocaine in the Poisons Schedule, and the only entry therefor is as an alkaloid (and not as coca or ecgonine). Moreover, *d*-cocaine may be regarded as cocaine, just as no one troubles about tartaric acid being *d*-tartaric acid. On the other hand, *d*-adrenalin would not be accepted as the equivalent of natural *l*-adrenalin, owing to its difference in physiological activity. Thus as regards psicaine it is possible:—

- (1) To class it with novocaine as a pure synthetic (i.e., outside the Poisons Schedule as a new chemical entity).
- (2) To include it in the Poisons Schedule as a derivative of ecgonine [a poisonous (vegetable) alkaloid].
- (3) To look upon it as cocaine [a poisonous (vegetable) alkaloid] in one of its chemical stereoisomers.
- (4) For it to be dealt with under the Dangerous Drugs Act, 1920, under Section 8 (2), which concerns "any new derivative of morphine or cocaine of whatever kind is, or is likely to be productive, if improperly used, of ill effects, substantially of the same character or nature as or analogous to those produced by morphine or cocaine."

Compare the above absurdities with the first entry in Part 1 of the Poisons Schedule, "Aconite, aconitine and its preparations." This specification is far clearer than the new recommendation of "digitalin" and "all other poisonous constituents of digitalis," because no one is certain what these constituents are. "Poisonous" as applied to alkaloids is also incapable of precise delimitation, and must be based upon some arbitrary agreement, as with quinine. Although fatalities have occurred with this alkaloid, it is not regarded as a poison, because the safe dose is several grains. It is not necessary to enter into details on this doubtful definition, as it only strengthens the arguments above—that the proper course to adopt is to specify by name the poisons included in the various parts of the Schedule. There is no need to be ultra-scientific; plain everyday nomenclature will do as long as this has not outlived its original significance, as is the case with the word "alkaloid." In the three examples given (aconite, digitalin and psicaine) the advantage of plain statement of fact over pseudo-scientific words of doubtful significance is obvious; they afford excellent examples of the utility of calling a spade a spade, leaving the individual who has never seen a spade to enlarge his stock of knowledge on the object in question.

The Advance in Shellac

ALTHOUGH the actual demand for shellac since the close of September has not been so active as it was a few weeks previous, when prices showed a strong upward tendency, the market situation continues interesting, chiefly because of the marked depletion of spot stocks that has been taking place for some time past. This fully confirms the forecast we made in our issue of June 14 last when dealing with the position. We then stated that "important additional withdrawals will become inevitable," while pointing out, amongst other facts, the reversal which took place in the distribution of shipments from Calcutta, partly incidental to the increased proportion diverted to the United States. After pursuing a downward course until the earlier part of the spring, the price of standard T.N. orange quality on the spot, which then touched about 255s. per cwt., steadily recovered, and lately reached 325s., amidst very erratic upward fluctuations in forward positions, this being due to the obscure conditions which characterised the Calcutta market. The

renewed upward movement has undoubtedly been largely determined by the accumulation of strength in the statistical position on this side. The fact may be recalled that when the Calcutta price attained about 135 rupees early in June last the London spot price stood at fully 270s. Since then there has been an appreciation in the latter of no less than 55s. per cwt. to the figure above-mentioned of 325s., despite Calcutta quotations having lately only fluctuated up to about 140 rupees. At the same time there has been a very sharp advance in c.i.f. costs, partly due to the considerable variations in the rupee rate of exchange. Not only has there been a full recovery from the depression noted over the spring, but prices have risen considerably above the level seen at the opening of this year, when the spot value was 300s. Although there does not seem to be much faith in the stability of the market after the recent inflation, experience has shown that under dangerously low stocks there is always a possibility of the market getting out of hand in the event of strong bull manipulation, either in Calcutta or in London. There are, indeed, but few commodities where fluctuations have proved to be so great within the last seven years or so. Unless a change takes place in the accession of supplies which have largely fallen in the course of this year (and there is as yet no indication of this), there is little hope for consumers of a substantial decline from the current high prices. For several consecutive months the total quantities shipped from Calcutta have been on the lean side and far below those of last year, although they were then exceptionally heavy. An examination of the figures we give below, covering the first nine months of this year, clearly emphasise the fact that whereas the deliveries into consumption on the whole have been well sustained compared with the same period last year, incoming supplies were, as already stated, comparatively small.

	1923	1924
London landings (cases)	53,101	36,569
Average per month	5,900	4,063
London deliveries	44,178	45,528
Average per month	4,909	4,836
London stocks on September 30	13,199	8,377

It will be seen that the landings for the nine months of this year, at 36,569 cases, indicate a deficit of about 16,500 cases against the same period last year. There was a decrease in the stocks last month of 1,624 cases to 8,377 cases which compared with a year ago shows a decline of about 4,800 cases, and the present stocks are the lowest recorded for considerably over a year past. It is quite on the cards that the deliveries from stock will develop further; at the same time there has been a further widening in the distribution of supplies to foreign countries outside of the United States, which country usually takes the lion's share of the Calcutta exports. The following table gives the monthly average of both the landings and deliveries (in cases) at this end for the last four years and so far this year:—

London	Landings		Deliveries	
	Monthly average	Monthly average	Monthly average	Monthly average
1920	3,982	4,190		
1921	4,372	4,450		
1922	4,204	4,769		
1923	5,623	4,700		
1924 (nine months)	4,063	4,836		

The figures relating to the deliveries are certainly interesting, as they clearly indicate the generally progressive rate of the monthly average. In the case of the landings, however, the monthly average has been erratic and on the short side compared with deliveries, except for last year.

The Rise in Antimony

CHINA being by far the largest producer of antimony, it is quite obvious that the civil war in that country should have an important bearing on the market. The prominence of China as a supplier to the world's markets is evident from the fact that in recent years her output averaged approximately 13,000 tons annually out of the total world's output of 17,000 tons. The critical outlook in that country did much to stimulate the general demand, especially on American account, in the early months of this year, and this imparted considerable strength to the market, which, however, has been most erratic. At the same time there has not been a large volume of speculation either in refined or crude antimony. The price of Chinese crude on the spot at the close of last year was around £22 per ton, when fairly regular offers were still being made from China, but, owing to the scarcity of supplies, which became acute towards the end of March, holders of the limited number of parcels on the spot were then enabled to realise as much as £35 per ton, or about £13 per ton over the quotation ruling at the beginning of the year. The pressure of demand for Chinese regulus about that time was so insistent that spot lots sold up to about £59, so that English refiners who have had but little stock for sale for some time past, lifted their terms for special brands to about £65. The figures above-mentioned, either for crude or regulus in the latter part of March, were the highest recorded so far this year, or since 1919, and show an appreciation of roughly 100 per cent. compared with the quotations current at about this time last year. The much-increased American demand was reflected in the considerably enlarged United States imports, which for the first half of this year amounted to well over 5,000 tons, or fully 2,000 tons in excess of the returns for the corresponding period of last year. While America has of late years imported at the rate of about 7,000 tons per annum, it looks as though her purchases for the current year will be well in excess of that amount, although it was estimated by an American authority that one-half of American requirements can be filled without depending on importations, resort being had to either domestic antimonial lead ores or the antimony by-product of copper works as well as secondary antimony secured from the melting of scrap alloy. From the high prices attained late in March, already referred to, there ensued a steady reaction over the spring period and until about mid-July. This was due to increased shipping offers from China, which, in spite of the limited supplies actually held on the spot on this side, rendered the market very sensitive, inasmuch as a certain lack of interest became manifest on American account. Prices over that period were most erratic, and weakened down to about £26 for Chinese crude, £40 for regulus, and to about £45 for English refined. At that level there was, therefore, a setback of about £9 for crude, £19 for Chinese refined, and £20 a ton for English regulus compared with the terms seen late in March. Much better shipments were advised from China, where supplies had accumulated against outstanding old contracts, and these obviously afforded relief to importers here and in the United States, where importers had been previously badly handicapped in the fulfilment of their engagements on account of the transit difficulties in China. Since the end of July, however, disturbances in China have assumed a more serious character, while the situation was rendered the more precarious by floods, and a strong upward reaction became inevitable, with a virtual dis-

appearance of c.i.f. offers lately. Chinese regulus on the spot has moved up again by fully £9 to £49, and English refined by £10 a ton to £55, and the scarcity of supplies threatens to become as acute as it was before. There has certainly been a more active demand during the last few weeks, and the small quantities of Chinese regulus lying in warehouse here are tightly held. Home refiners appear to have very little to spare while finding some difficulty in meeting their regular customers' needs. In the event of the industry in China becoming more seriously disorganised and the surplus stocks there being exhausted, it is hardly to be expected that resources from other producing countries, such as Mexico, Bolivia, Canada, France and Italy, could be attracted except on a further rising market. There is no doubt that European consumers would be more seriously affected by a long period of scarcity than might be apprehended in America, where the maintenance of the price at upward of 9 cents per lb. should stimulate production from lead and copper ores, and thus protect consumers against the possibility of an acute shortage. In the early months of this year there was quite an active demand for antimony ores, when Chinese crude was exceedingly dear, advancing to as high as £35 per ton. Business was done in ores up to fully 6s. per unit based on 50 per cent. sulphide ore, but interest in ore has since become quite negligible, it being contended by smelters that the present rate ruling of about 4s. per unit is still too high to induce purchases or to make it a profitable business.

Spot Degrees

THERE appears to be a recrudescence in this country of offers of science and other degrees of a so-called university located in the United States. Chemists are being offered "special facilities" to obtain the degree of D.Sc., M.Sc., or B.Sc., such erudite theses being set as "the Origin of Pharmacy." From the list of "graduates" it appears that several people in pharmacy masquerade under these American "degrees." We fancy the best way to kill this foible is to ask the question: "What university granted your degree?" A direct answer could not fail to draw a smile which would be rather disconcerting to the holder of the "degree." It should be pointed out that there is no legal definition of a university, and any educational institution may adopt the title, but it is beyond the power of such a body to give dignity and standing to degrees that are not obtained by hard work and brains.

An Ethical Point

AN unwritten obligation which figures in the ethical code of Belgian pharmacists requires that the first to deliver a medicine shall indicate the price charged to the customer on the prescription, or on the copy. This price is by agreement indicated by the use of the letters u, d, t, q, e, s, z, h, n, o, whereby capitals are employed for francs and small letters for centimes. Apparently there is a tendency to neglect this ethical rule, particularly by pharmacists who are prone to cutting. Recently, a Brussels pharmacist who was handed a copy of a prescription emanating from a *confrère* in Ghent, and which bore no indication of the price originally charged, decided to teach the peccant one a lesson. He wrote him a letter, sending at the same time a copy to the "Journal de Pharmacie de Belgique," in which, after referring to the absence of the price on the copy in question, he expresses himself as follows: "Not wishing to fail in any respect in my obligations, indeed being desirous of going even further, I beg to state for your information that I charged my client 4.50 francs, and indicated this price by the agreed letters 'Q.co.' inserted between the text of the prescription and the practitioner's signature." In publishing this epistle, the editor of the "Journal" makes the following comment: "The writer of the letter has been magnanimous, and has selected a delicate weapon worthy of use by members of the profession who are conscious of representing a select class amidst the vulgar and profiteering hordes which infest public life."

German Borax Duty

THE licensing system adopted by Germany for the purpose of controlling imports and exports virtually gave each trade group or branch of industry represented by its distinctive foreign trade board the power to dictate the terms on which applications for licences would be granted. In an article in the semi-official "Industrie- und Handels-Zeitung" of September 30, Dr. W. Wenzel declares that it is no secret that industrial circles are anxious to perpetuate the protection from competition they have hitherto enjoyed under the ægis of the foreign trade boards, and to this end they look to the new customs tariff for the realisation of their aims. The author urges that the government should carefully investigate every demand for the inclusion of a high rate of duty emanating from industries representing themselves to be in need of protection from foreign competition. After instancing the excessively high import duty demanded by the automobile industry, to the detriment of the public, Dr. Wenzel proceeds to state that industries interested in working up raw materials are now endeavouring to shape the new tariff to suit their own ends. "Thus," he says, "the German Borax Association, a body entirely dependent upon English Borax Consolidated, Ltd., in London, and which includes nine of the most important German producers of borax, demands an import duty on borax of 5 marks per 100 kilos." Under the present tariff borax is admitted free of duty, but its importation is subject to the issue of a licence. "This charge," he continues, "would exclude American competition and further consolidate the power of the English world-trust as a *rocher de bronze*." On the other hand, since the refiners particularly stipulate that the raw material supplied by the English trust to the German borax works is to be admitted duty-free, it follows that they will increase the price of refined borax by the amount of the proposed duty, which will represent an additional profit amounting to approximately 270,000 gold marks annually, of which, by the terms of their contract, so this writer asserts, one-half will have to be paid to the English trust. "In other words," according to Dr. Wenzel, "this would mean subsidising an English company at the expense of the German borax consumer."

Marketing New Specialities

IN consequence of the large number of proprietary preparations which are issued, the pharmacist is frequently called upon to supply a product with which he is unacquainted. It is not to be found in any of the price lists, and often after ordering it from his wholesaler he receives a request from the latter to indicate the manufacturer. In this country, one of the services which THE CHEMIST AND DRUGGIST renders to its subscribers is to supply such details, through the medium of our Information Department, where a keen look-out is kept for all references to new products and the essential facts indexed by a special system. An Austrian firm, G. & R. Fritz-Pezoldt, Süss A.G., the well-known Viennese wholesale drug house, propose as a remedy to invite the co-operation of manufacturers of pharmaceutical specialities in the following scheme. This firm issues every fortnight a price list, which is mailed to all the pharmacists in Austria and to the more important businesses in the Austrian succession states and in the Balkans. In it are included only those preparations which are actually stocked by the firm. On placing on the market a new preparation, the manufacturer, without waiting to be asked, is invited to send three packages to the Austrian house, whereupon the article will be included in the firm's price list, and attention will be specially drawn to it by a reference in the section devoted to "additions to the price list" or to "new preparations." As soon as these three packages have been sold and the firm places an order for stock it is left to the manufacturer to invoice them in the usual way. On the other hand, if there has been no demand for the preparation, the three packages will be returned at the end of a year. This scheme seems eminently feasible, and provides an interesting suggestion for remedying a frequent cause of delay and trouble in obtaining supplies of new products.



BRITISH EMPIRE EXHIBITION

Described and Illustrated

XIV South Africa

The Pavilion of the Union of South Africa is built in old Dutch style, with white walls, red tiles and distinctive gables over the entrances; on one side is a beautiful laid-out garden, and on the other an ostrich paddock. Inside the pavilion the various sections present South Africa to the eye with considerable ingenuity and thoroughness of detail. The *tout ensemble* shows that there has been close co-operation of all the provinces in the Union—the Cape of Good Hope, Natal, the Transvaal, and the Orange Free State, the underlying purpose being to show every aspect of the progress of the country.

OILS, FATS, AND WAXES

The Division of Chemistry of the Union Department of Agriculture occupies a large bay devoted to oils, fats and wax, vegetable oils, essential oils, farm fertilisers, soils, botanical specimens, etc. The exhibit is arranged along three sides of the bay, and in the open centre are several glass cases containing dried and mounted specimens of plants. Fronting the visitor at a convenient height are sixteen panels showing the Union's soils, and arranged on tiers of shelves are about 200 specimens of oils, fats, waxes, fertilisers, farm foods and other similar products, while above all, on the wall, are displayed enlarged photographs illustrating the many activities of the Division. A photograph of the fine new double-storeyed laboratories recently erected for the Pretoria section of the division commences the series, another photograph shows the soil survey party of the division investigating soil trouble in the Forest Department's lands on the George Mountains, Cape Province, and interior operations in the various laboratories are represented by views of tanning investigations in progress in the Cedara laboratory, Natal. Several views show the testing of gold amalgam and the examination of cases of poisoning in the Johannesburg laboratories, the mechanical analysis of soil in the laboratories at Grootfontein, and a number of photographs show various operations in the Cape Town laboratories, including the examination of dairy products,

the analysis of water, the inspection of fertilisers, soil bacteriological work, and the testing of wine and brandy.

Sections A and B of the exhibit are devoted to oils, fats and waxes, one comprising those of animal origin and the other those derived from the vegetable kingdom. These oils have been investigated in the laboratories of

the division either at Pretoria or Cape Town and some at the Imperial Institute. First of all, there are whale oils. The whales most frequently caught in South African waters are the blue whale, the finback and the sei whale. Blue whales of the larger size yield as much as 150 to 200 barrels of oil. In a report issued by the division it is stated that:—

The oils extracted from the whale may be met with either in their natural condition, or hydrogenated, by a process which facilitates their solidification. The process of hydrogenation has completely revolution-

ised the whale industry, removing objectionable odours of fish oils. Hydrogenated oils of the best types are consequently to-day often used as edible fats, the lower grades being used in soap manufacture.

The exhibit comprises four types of whale oil, viz., pure blubber oil, a better quality of flesh oil and two lower grades. Two classes of sperm whale oil—blubber and carcass oil—are also shown. Another oil in the exhibit is that obtained by boiling down seal blubber. It possesses valuable medicinal properties, being used among fishermen as a substitute for castor oil. Then there is a sample of shark oil, obtained by rendering the livers of that fish. Passing over to land animals, there are exhibits of neat's foot oil, extracted from the hoofs of oxen, and used in the form of an emulsion for treating hides in the leather industry and as a lubricant for fine machinery. Samples of tallow illustrate the manifold uses to which some animal fats may be turned: it serves to waterproof tarpaulins, as a lubricant when mixed with mineral oil, in candle making and in certain classes of soap. Of mixed fats, a sample of margarine is shown, consisting of a combination of beef fat with lard, coconut oil, peanut oil and cottonseed oil. There is also a specimen of stearin, which is obtained as a by-product in the manufacture of margarine. Of the animal waxes, there



DIVISION OF BOTANY AND CHEMISTRY

are samples of beeswax and insect wax, the latter obtained from insects which infest the myrtle and various other South African plants.

VEGETABLE OILS

In this section specimens of groundnut oil in various stages of refinement are shown, together with hydrogenated oils. Groundnut oil is of the non-drying class, and is chiefly used in soap making, margarine, salad oils, and the peanut itself, which contains 45 per cent. of oil, grows well in numerous localities in the Union. An oil of the drying type is that derived from flax seeds which yields nearly 40 per cent. of linseed oil; maize oil, of which samples are shown, is a semi-drying oil, which is being obtained in largely increasing quantities as a by-product in the manufacture of South African starch: it is used as a food, a lubricant, an illuminant, in paint making and for soap making in South Africa. Several qualities of cotton-seed oil and other by-products of the cotton industry are exhibited; they are mostly employed as a lard substitute and in the manufacture of margarine. The oil of sunflower seeds is also exhibited, which it is suggested could be used in soap making and instead of linseed oil in paints. Castor oil beans grown in South Africa are shown having an oil content of 45 to 50 per cent. Oil from the kernels of the wild Kaffir plum, containing about 65 per cent. of a viscous oil, which has been chemically investigated in the Pretoria laboratory of the division, is also shown, while the Cape chestnut, which grows in the coastal area of the Union, also yields a non-drying oil suitable for soap making. Another little known South African oil is that derived from the mafurra tree, which grows in the north-eastern parts of the Union. Natives use it as a body lubricant and as a food. Still less familiar is the oil from the naras plant, which grows among the sand dunes of Walfish Bay; the seeds yield over 50 per cent. of a pale yellow oil of a rather pleasant odour, which has been examined in the Cape Town laboratories. The seeds which contain this oil are locally known as "butter pits." The kaffir melon, or monketaan, contains seeds which yield over 20 per cent. of oil. This, too, has been investigated by the Cape Town branch of the Division of Chemistry. Many of the above oils are accompanied by illustrated examples of the raw materials grown in the Union from which they were extracted; these include different varieties of seeds, kernels, fruit, flowers and leaves. Crude and refined coconut oil, obtained from material imported from East Africa, forms a very interesting item in this series of exhibits. Another article imported into the Union is the palm kernel. Then we have manketti nuts, grown in South-West Africa. There are extensive forests of this tree, which is one of the euphorbia family, beyond Tsumeb. The ripe fruits are eaten by bushmen: the kernels contain nearly 60 per cent. of a bright yellow semi-drying oil. There are also specimens of oil from other plants, such as the maroola nut, the gembok bean and the bergpruim, which could be used as lubricants or for soap making.

Of vegetable waxes there are two exhibits—berry wax and cane wax. The former is obtained from a plant which grows all along the coastal belt of the Cape province. It finds an outlet in floor polish. Cane wax is obtained as by a by-product in the sugar industry, and has been until quite recently a waste product. A local demand has, however, arisen for it as a furniture and boot polish, and an export trade has also been created. The wax may be obtained in a condition in which it is chemically very similar to carnauba wax and beeswax. It has a high melting-point and takes an excellent polish. Several grades of these waxes, hard and soft, filtered and unfiltered, are on show, and should interest wax buyers.

There are many exhibits of farm foods and fertilisers which are being manufactured or are capable of being made in the Union. Another separate division of chemistry exhibits consists of plants (other than cultivated crops) that are capable of utilisation as fodder: no fewer than thirty of these are shown. It will be seen that as a whole this exhibit affords considerable insight into the multiform bearing of chemistry on South Africa's actual and potential industries, and those on the look-out for new oil-seed products would do well to study the exhibits closely.

MEDICINAL AND POISONOUS PLANTS

This section includes some of the medicinal and poisonous plants which have been examined from time to time by the Division of Chemistry of the Union Department of Agriculture. *Polygonum tomentosum* is employed by natives for black gall sickness, but a decoction of the roots has caused death. The plant has been found to contain an acrid resin. The bulbs of *Bouiea volubilis* act as a strong irritant and emetic, and have also brought about fatal results. Similar consequences have followed upon the ingestion of infusions of *Melianthus comosus*, a plant well known in most parts of the Cape Province. The leaves and roots are used by the natives for snake bites. Specimens are shown of species of *Euclea lanceolata*, a forest tree whose bark and the root is strongly cathartic; a decoction is employed, and its action is said to be rapid. Hottentots' tea (*Helichrysum*) is also shown. The roots and tubers of the tea possess strongly emetic and mildly purgative properties. Wild dagga, tulp and slangkop are other poisonous plants found in the collection, as well as the intensely poisonous *Acokanthera venenata*, of which large specimens may be seen growing in the Parliament House Gardens. Other specimens include the diuretic wild celery or blister bush, which flourishes on Table Mountain, and the collection also includes *Dicoma anomala* Sond., which is plentiful in timberlands and the midlands of Natal. The leaves are intensely bitter and the plant is reputed to possess medicinal value in colic; a small amount of a crystalline glucoside and traces of an amorphous alkaloid have been isolated. *Peucedanum galbanum*, or wild celery, is common on the mountains around Cape Town, and an infusion of the leaves is largely used by the natives as a diuretic. *Brachylana elliptica* is a shrub found in the eastern districts of the Cape Province, and decoctions of the leaves are used as a gargle for malignant sore throat. *Leonotis leonurus* (wild dagga) grows in profusion in many parts of South Africa; the leaves are smoked by the natives for the intoxicating effects; infusions are used in cases of snake-bite, colds and tape-worms. *Rauvolfia natalensis* Sond. (Apocynaceæ or quinine tree), the bark has a bitter taste and is said to have the therapeutic properties of quinine. No cinchona alkaloids have been detected, but a crystalline active alkaloidal principle, amounting to 0.2 per cent., has been isolated.

Among the exhibits supplied by the National Botanic Gardens, Kirstenbosch, Cape Province, are the following, which have been cultivated at that centre:

Cinnamomum Camphora (the camphor tree of commerce). This is often planted in the South-West Cape Province, where it grows to an immense size. *Aspalathus cederbergensis* L. *Bolus* (Leguminosæ). (Rooibos Thee.) The principal source of the Rooibos Tea, which is collected in large quantities in the Cedarberg Mountains, Western Cape Province. This tea is largely used by the poorer classes, and is very wholesome and devoid of alkaloidal stimulants. *Cyclopia genistoides* Vent. (Leguminosæ). Honey Tea. This is a shrub of the Cape Peninsula, frequently used in the dried state for making a tea substitute. *Cyclopia Vogelii* Harv. (Leguminosæ). Bush Tea. This is a shrub of the Cape Province used on a commercial scale as the source of "Caspa" Tea. *Dodonaea Thunbergiana* E. and Z. (Sapindaceæ). Zandolin. This is an abundant shrub of the Cape Province. The dried shoots are used for making an infusion reported to be of value as a tonic and in respiratory affections. *Leyssera gnaphaloides* L. (Compositæ). Geelblommethe Thee: used as a tea-substitute in the Cape Province. *Barosma betulina*, Bartl and Wendl (Rutaceæ). Round-leaved buchu. Buchu is abundant in the Cedarberg Mountains, Western Cape Province, whence comes the bulk of the supply. Its cultivation has been undertaken in recent years, with very successful results. This variety generally obtains the highest price of the three commercial buchus. *Barosma crenulata* Kunze (Rutaceæ). Oval-leaved buchu. A shrub frequently found in the South-Western Cape Province, and now successfully cultivated at Kirstenbosch, and elsewhere. The growth is more luxuriant than that of *Barosma betulina*, but the commercial value of the dried leaves is somewhat lower. *Barosma serratifolia* Willd. (Rutaceæ). Long-leaved buchu. This is also from the South-West Cape, and of some commercial value, though less than the other two species. *Empleurum serrulatum* (Rutaceæ). This is a tall shrub of the Cape Province with

a strongly aromatic essential oil, and used as an inferior substitute for buchu. *Agathosma microphylla* (Rustaceæ) is another highly aromatic shrub, native in the Cape Province, as a substitute for buchu. *Sachys rugosa* (Labiateæ). Dassiebos. A strongly scented sub-shrub of the mountains of the central and northern districts. *Mentha longifolia* (Labiateæ): wild mint; is a frequent perennial in moist places, and yields an aromatic essential oil, a possible substitute for spearmint oil. (*Bull. Imp. Institute*, 1920, p. 550.) *Nicotiana glauca* R. Grah. (Solanaceæ): wild tobacco; is naturalised in many of the dried areas. *Datura Stramonium* L. (Solanaceæ): stinkblaar: stramonium: is naturalised in many parts of South Africa. Yields hyoscyamine, hyoscine and atropine; the dried leaves are extensively used in certain proprietary remedies. *Datura Metel* (Solanaceæ): now takes the place of *D. Stramonium* in the British Pharmacopœia. *Cynanchum africanum* R. Br. (Asclepiadaceæ), Klimop. This plant is a creeper with green stem and leaves from which, when broken, exudes a sticky, milk-like juice. It is found chiefly in the South-Western districts of the Cape Province. The seed pods are stated to be particularly poisonous, although the whole plant is toxic and injurious to stock; a preliminary investigation seemed to indicate the presence of a small amount of some alkaloidal substance (about 0.1 per cent. of crude principle).

In addition to those exhibited, the following plants of known or reputed medicinal and aromatic value are now in cultivation at Kirstenbosch, whence they can be obtained by persons wishing to cultivate them in South Africa: *Aconanthro spectabilis* (poison bush); *Aloe ferox* and other species (bitter aloes); *Anthemis nobilis* (camomile); *Artemisia Absinthium* (wormwood); *Artemisia afra* (wilde als); *Atropa Belladonna* (deadly nightshade); Buchu. Various species of *Barosma*, *Agathosma*, *Colconema* and *Diosma*. Bush Tea. Various species of *Cyclopia*, *Aspalathus* and *Leyssers*. *Chrysanthemum cinerariifolium* (insect powder plant); *Citrullus colocynthis* (cocoons); *Cochicum autumnale* (meadow saffron); *Digitalis purpurea* (foxglove). Eucalyptus (various oil-yielding species); *Foeniculum officinale* (fennel); *Glycyrrhiza glabra* (liquorice); *Hyoscamus niger* (henbane); *Hydrastis canadensis* (golden-seal); *Larandula vera* (lavender); *Lippia citriodora* (sweet-scented verbene); *Melanthus niger* (kruidje-roer-mij-nie); *Mentha piperita* (peppermint); *Mentha Pulegium* (pennyroyal); *Mentha viridis* (spearmint). Pelargonium (various aromatic species); *Peucedanum Galbanus* (blister bush); *Ricinus communis* (castor oil); *Rosa damascena* (otto rose) (varieties); *Rosmarinus officinalis* (rosemary); *Scilla maritima* (squill); *Sutherlandia frutescens* (kankerbos); *Tanacetum vulgare* (tansy); *Valeariana officinalis* (valerian). There is also an extensive collection of other economic plants for supply and reference at Kirstenbosch.

ESSENTIAL OILS

In the Division of Chemistry there are about a dozen specimens of essential oils on show in small sealed sample bottles. These include three samples of peppermint oils from black and white Mitcham mint, grown at Sir Lowry Pass, Cape Province, and at Klaver, Cape Province. The proportion of menthol from the black mint amounts to about 61 per cent., and that from the white mint about 55 per cent.; the yield from the black mint was 29 lb. per acre, and that from the white 8½ lb. per acre. There are also three samples of spearmint oil, one containing about 68 per cent. to 70 per cent. of carvone, and the yield was 43 lb. per acre. These oils appear to come from the Somerset West district, but no figures are available as to the output. Eucalyptus oil from blue gums grown in the Transvaal (cineol content not stated) is likewise included in the collection, as well as a small sample of buchu oil, contributed by the Forestry Department, Cape Province. The Mexican marigold is well known in South Africa, but mostly as a troublesome weed. However, it yields an essential oil known as khaki vos oil, a small sample of which is shown. Here, too, is a sample of apricot-kernel oil and isifiku oil, which consists largely of terpenes and is obtained from the berries of a plant growing in Zululand.

MISCELLANEOUS EXHIBITS

In the South African section the soap manufacturers of the Union have a combined exhibit in one of the bays. They show samples of tallow, synthetic tallow, copra oil, palm kernel, palm, bleached palm, groundnut, cottonseed, soya bean and linseed oils. In wall-cases are displayed examples of blue mottled soap, brown and yellow laundry

soaps in slab form, prior to cutting, also toilet soap stock and carbolic soaps. The firms comprising this joint exhibit are F. Ginsberg & Co., Ltd., King William's Town; Lever Brothers, Ltd. (South Africa), Durban and Cape Town; Natal Soap Works, Durban and Pretoria; New Prospect Soap and Chemical Manufacturing Co., Ltd., Johannesburg; New Transvaal Chemical Co., Johannesburg; South African Oil and Fat Industries, Ltd.; Jacobs, Natal; Transvaal Soap Co., Ltd., Johannesburg; and the Tudor Oil Works Co., Ltd., Port Elizabeth. No figures are available showing the output of soaps and allied products, nor the amount of capital invested in the industry. Price's (South Africa), Ltd., Cape Town and Johannesburg, have a black and gold closed glass exhibit consisting of the large variety of paraffin candles, including the Atlas, London Sperm, Lighthouse, Imperial, Palastrine, Belmont, etc. C. G. Smith & Co., Ltd., S.A. Oil Mills, Ltd., show crude and refined oil. Kynoch, Ltd., Umbogintwini, Natal, display mineral acids (sulphuric, nitric, hydrochloric) and chemicals, including B.P. Epsom salt, commercial sulphate of alumina, sodium arsenite, phosphoric acid powder, sodium phosphate, copper sulphate, sulphate of iron, sulphur, etc., and a number of fertilisers of South African manufacture. The Cape Explosive Works, Ltd., Somerset West, C.P., show a number of similar products, including Epsom salt. This is obtained from magnesite from the Barberton district, or from the oxide left after calcining magnesite for the production of carbon dioxide. The company also show glanber salt, considerable quantities of which are obtained as a by-product in the manufacture of nitric acid and in the production of salt. Sanitary fluids and powders, cattle dips, fertilisers, horticultural chemicals, sulphur for sheep dips, sulphuric acid, etc., are shown by the African Explosives and Industries, Ltd. Samples of cottonseed oil are shown by the African Oil Mills, Ltd., and cloudy ammonia by the New S.A. Condiment Works, and "Safco" fertiliser by the New Transvaal Chemical Co., Ltd.

The Chief Native Commissioner, Pietermaritzburg, sends samples of vegetable ivory nuts from the palm (*Hyphaene crineta*), which grows in profusion along the northern coast of Zululand; the nuts are used in the manufacture of buttons. There are several collections of wattle bark, which grows largely in Natal, and for which there is a considerable export demand for tanning purposes, both the bark (containing 40 per cent. tanning matter), and the extract is shown. In the mining section are shown gold, diamonds, copper, lead, tin, fluorspar, nickel, platinum, antimony, chromium, germanite, molybdenum, iron ores, vanadium, talc, gypsum, graphite, magnesite, manganese, mica, corundum, asbestos, kieselschlirr, and coal. The Natal exhibit includes pitch, coal-tar, creosote, black varnish, and ammonium sulphate.

Rhodesia

Passing through the Central Hall of the South African Pavilion on the left hand side, towards the back of the building, one comes across the splendidly staged exhibits of Southern and Northern Rhodesia, which have recently won their status as a self-governing Colony. The area of the Rhodesian section is 5,000 square feet, and naturally the agricultural interests predominate, maize, tobacco and citrus fruits taking the lead. A representative display of oil seeds is made by the North Charterland Exploration Co. (1910), Ltd., of Fort Jameson, Northern Rhodesia, who show sunflower seeds, castor seed, groundnuts, capsicums, linseed and beeswax, also castor oil and sunflower oil and ground nut oil. The latter seed form an important crop in Rhodesia, being used in rotation or maize, and the harvesting is comparatively easy. The yield per acre varies considerably, but under favourable conditions over 30 bags (2,400 lb.) per acre are frequently reported. There is a ready local sale for ground nuts, the oil being extracted, and the residue converted into cake for cattle feeding. We gather that the exports are small at present, but there should be no difficulty in creating an export demand when supplies exceed local demand. Sunflowers grow to perfection as a field crop, and average yields range about 30 bushels of seed per acre. An export trade in seed has already

been established. Quite a large variety of beans are grown in Rhodesia, including haricot bean of Europe, the tepary bean of arid regions, the velvet bean of Japan, the dhal bean (pigeon pea) of India, and the sword bean of the United States. All the foregoing are displayed in bags of varying sizes, and as the production is increasing, trials are now being made in England for cattle feeding. Mr. G. H. Gordon, of Kashao, Banket Junction, shows a fine sample of small and selected capsicums, which, however, is a product subject to market vagaries and comparatively restricted demand. Everybody is now familiar with Rhodesian tobacco (the Imperial preferential duty in which some may regret has been swept away), of which many examples of cured leaf are exhibited. Both Virginian and Turkish tobacco are grown in Southern Rhodesia, and the production in 1922-3 was:—Virginia, 2,541,000 lb.; Turkish, 269,900 lb. Most of it is absorbed by South Africa alone, but some is used in England for blending purposes. It calls for intensive cultivation, and is a highly specialised branch of agriculture. Southern Rhodesia is a country of exceptionally varied mineral resources, many of which are still almost untouched. Gold is the chief item, the 1922 return being £3,111,500 worth from 2,060,800 tons crushed. Next to gold is asbestos, the output of which in 1922 was 14,250 tons, valued at £577,700. In fact, Rhodesia is now the largest producer of high-grade asbestos in the world, outdistancing Canada. Next to asbestos among the base metals is chromite or chrome ore, of which 93,475 tons were raised in 1922, valued at £302,900. Again, Rhodesia is already the chief source of this mineral, and there are large undeveloped deposits. Copper production is small—3,388 tons, valued at £201,000; coal, too, is small—323,000 tons, valued at £179,600, but the extent of the known coalfields is very large. Tungsten ores were raised in 1922 to the amount of £1,600, a lower figure than usual, and one which by no means reflects the potentialities as regards either wolfram or scheelite. Arsenic was produced to the value of £11,774 in 1922. It was mostly converted into cattle dipping fluids, partly in Rhodesia itself and partly at the Cape and Natal. Mica was mined to the extent of £16,560 worth, and shows a rapid expansion. The deposits are chiefly in the Lomagundi district of Rhodesia. There are also deposits of ironstone, barytes, lead, silver, antimony, etc., which await development. Samples of all the foregoing may be seen attractively displayed. Pictures and maps illustrating the general aspect of the country abound in this section, and the sportsman's side of life in Rhodesia is cleverly staged by a wealth of game, birds, antelopes, etc.

We find that during 1922 imports into Southern Rhodesia were valued at £3,764,160, compared with £5,091,116 in 1921. Nearly one-half, valued at £1,819,714, came from the United Kingdom; the Union of South Africa was credited with £882,677; other British countries, £197,755; and all other countries, £864,014. Imports from the United States were valued at £321,356, compared with £462,745 in 1921. The exports from Southern Rhodesia in 1922 were valued at £4,627,693, compared with £4,815,155 in 1921. The chief countries of destination of these exports were the United Kingdom, £2,982,955; South Africa, £416,099; and the United States, £572,338. In 1921, exports to the United Kingdom were valued at £298,450, to South Africa at £477,825, and to the United States at £455,391.

Total imports into Northern Rhodesia in 1922 were valued at £500,321, compared with £741,611 in 1921, while exports were valued at £616,083 in 1922, as against £565,401 in 1921. The import trade was chiefly with the United Kingdom, Southern Rhodesia, and the Union of South Africa. The export trade was chiefly with contiguous territories and the United Kingdom.

"**THE REFRACTIONIST**"—The official organ of the Institute of Ophthalmic Opticians, which until recently was published under the style of "The Institute Journal and Optometrist," celebrated its thirteenth anniversary on October 1. The number which appeared on that date marks a new departure in the history of the journal, which in future will be published fortnightly (the first and sixteenth of the month) instead of monthly. The editor is Mr. J. Harcombe Cuff, chemist and druggist.

Glaxo's New Product

WHAT is Glaxo-ovo? Many chemists will be asked the question within the next few weeks, thanks to an intensive advertising campaign, to which reference was made last week (*C. & D.*, October 4, p. 496). In order to find an adequate answer a *C. & D.* representative called recently at the palatial Glaxo House, Osney Street, London, W., where Mr. Harry Jephcott, Ph.C., M.Sc., F.I.C., the chief chemist, kindly undertook to supply the information. "Before I tell you about Glaxo-ovo, you must taste it," he said. Let it be stated at once that Glaxo-ovo is a palatable and comforting beverage, having the advantage of a flavour that is peculiarly its own. As only boiling-water is required to make a delightful food product, the case for economy and convenience is at once apparent. Chemists who have been reading the series of articles in the *C. & D.* recently on "The Factors of Life," will have learned that very great advances have been made recently in the science of dietetics. The advent of Glaxo-ovo, therefore, signifies a successful attempt to market a product embodying these advances. Glaxo-ovo, it may be pointed out, is not an invalid food in the strict sense of the word. While useful in most conditions of ill-health, this product is intended to provide an accessory food for both old and young. Glaxo-ovo, the result of two years' experiments in the Glaxo laboratories, consists of an intimate mixture of pure rich milk in highly digestible form with malt extract, cocoa and a vital principle of cod-liver oil. It is this last-named substance which raises Glaxo-ovo above an ordinary diet-food. This concentrate of cod-liver oil is a colourless, tasteless and odourless product, containing the anti-rachitic fraction of the fat-soluble vitamins, in a concentration more than 2,000 times that in which it is present in cod-liver oil. The isolation of this principle is the nearest approach made to the separation of vitamins which, up to the present, have presented to scientific investigators almost a Pimpernel-like elusiveness. To the non-scientific person the most important aspect of the new product will be that the unique properties of cod-liver oil are presented in an acceptable form, without causing digestive disturbances. In addition to the anti-rachitic factor of cod-liver oil, Glaxo-ovo contains food products in which all the other vitamins are actively present.

GLAXO HOUSE

There are probably few places better equipped than Glaxo House to carry out the research work which the preparation of Glaxo-ovo has entailed. Glaxo House was described in some detail in the *C. & D.*, I, 1921, p. 897, when mention was made of the chemical and bacteriological laboratories in which the purity of Glaxo (and now Glaxo-ovo) is assured. On this occasion, however, the *C. & D.* man was privileged to peep within the "animal room," where pink-eyed, white-coated rats and perky guinea pigs are doing their share in testing vitamin therapy. Here chemistry is given a new facet. The formation of bone and the cure of xerophthalmia in rats are some of the processes which are utilised to test the potency of the fat-soluble factors of cod-liver oil. The question of vitamin A insufficiency is, of course, closely related to calcium retention. Accordingly, the influence of the anti-rachitic principle is determined by the estimation of alkalinity of the faeces of the rat. In this the ordinary volumetric method falls short, and the hydrogen ion concentration is determined electrometrically. Before the rats are ready for experiment, however, a vast amount of card-indexing and the making of graphs depicting the condition of the animal must be completed. In the past many attempts have been made to produce a perfect food. It is a striking commentary on present-day "truth in advertising," when, for a food such as Glaxo-ovo, with so much expert knowledge behind it, the modest claim is made: "the nearest approach possible at present" to the perfect food.

DOUBLE-HEADED MATCH.—A patent has been granted (No. 221,430) for a match provided with two heads, a safety head at one end and an ordinary one at the other.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in grading, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, October 9.

THE political situation has naturally put a brake on business to some extent, but at the same time there is a firm undertone in the produce markets, with an improvement in the volume of inquiries. The opinion is expressed that better business conditions will now prevail for the remainder of the year. Among crude drugs, higher prices are asked for areca. Balsams are unchanged, and senega meets with a fair demand, spot prices being rather cheaper than American parity. Cascara sagrada continues to arrive freely on a quiet market. Honey has been selling at last week's advance, which seems to be well-established. Menthol, as anticipated, is firmer after last week's decline, and mint oil has risen sharply and is difficult to find on spot. Beeswax is firm and in more inquiry, and turmeric is steady. Pharmaceutical chemicals show a fair business at generally steady prices. Aspirin continues firm. Barbitone is easier. Bromides are irregular; guaiacol carbonate has declined. Hexamine is steadier: ferri ammon. cit. green has been reduced. Among industrial chemicals the tone is now very steady and a number of products are firmer in sympathy with Continental quotations. Ammonium chloride, barium chloride, sal ammoniac and lithopone are steadier: sodium acetate is dearer. Changes in coal-tar products include a further decline in pitch. In fixed oils, the tone is healthy, and business has been on a larger scale. Castor is firm; cotton seed is lower for all grades; palm has advanced sharply; ground nut and rape are firm. Linseed has been active and dearer. In outside articles, sugar is cheaper, shellac firm, and rubber dearer. Mercury has sagged.

Higher	Firmer	Easier	Lower
Areca	Cassia oil (c.i.f.)	Bergamot oil	Barbitone
Citronella oil	Citronella oil (Cey.)	Betanaphthol	Cottonseed oil
Fusel oil	Lemongrass oil (Cochin)	Caraway seed (c.i.f.)	Ferri ammon. cit. green
Lavender oil (Fr.)	Menthols	Citric acid	Guaiacol carbonate
Linseed oil	Potash caustic	Farina	Pitch
Mint oil	Potash permag.	Geranium oil (Bour.)	Thymol
Palm oil	Rape oil	Maize starch powder	Vetiver oil (Bour.)
Pepper		Mercury	
Sodium acetate		Orange oil	
Wood oil			

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	October 1	October 8
Amsterdam	Fl. to £	12.107	11.54 ¹ —11.55	11.46 ¹ —11.47
Berlin ..	M. to £	20.43	18.70—18.80 bilns*	18.70—18.80 bilns*
Brussels ..	Fr. to £	25.22 ¹	92.05—92.15	93.90—94.00
Calcutta ..	Per rup.	24d.	17 ² d.—17 ³ d.	18 ¹ d.—18 ² d.
Christiania ..	Kr. to £	18.15 ⁹	31.55—31.60	31.15—31.20
Constantinople ..	Pst. to £	110	820—835	830—850
Greece ..	Dr. to £	25.22 ¹	259—262	257—259
Italy ..	Lire to £	25.22 ¹	101.80—101.85	103.35—103.45
Kobe ..	Per yen	24.58d.	21 ¹ d.—21 ² d.	20 ¹ d.—20 ² d.
Lisbon ..	Escu.	53 ¹ d.	1 ¹ d.—1 ² d.	1 ¹ d.—1d.
Madrid ..	Pts. to £	25.22 ¹	83.34—83.37	83.39—83.42
Montreal ..	\$ to £	4.86 ¹	4.46 ¹ —4.46 ²	4.46 ¹ —4.46 ²
New York ..	\$ to £	4.86 ¹	4.46 ¹ —4.46 ²	4.46 ¹ —4.46 ²
Paris ..	Fr. to £	25.22 ¹	84.10—84.15	86.10—86.15
Singapore ..	Per dol.	—	28 ¹ d.—28 ² d.	28 ¹ d.—28 ² d.
Switzerland ..	Fr. to £	25.22 ¹	23.43—23.45	23.30—23.32
Vienna ..	Kr. to £	24.02	315,000—318,000	315,000—318,000

* Nominal.

Cablegram

NEW YORK, October 9.—Business is quiet. Menthol is lower at \$13.00 per lb., and Cartagena ipecacuanha is also cheaper at \$2.35. Balsam tolu has declined to \$1.85, and mercury to \$71.50 per flask. Balsam peru is higher at \$1.80 per lb.

Revue des Marchés

Sommaire des principaux mouvements des prix des drogues, essences, produits chimiques et pharmaceutiques sur le marché de Londres.

Abréviations d'usage employées pour indiquer les mesures de poids et de capacité:—Ton = 1016 kg.; Cwt.=50,8 kg.; lb.=453 gr.; oz.=28,34 gr.; Gal.=4546 c.c.

La situation politique intérieure a eu sa répercussion sur le marché; une retenue des acheteurs se manifeste et on ne signale pas de forts mouvements. Sont en demande: l'acide acétysalicylique, les bromures, l'hexaméthylène-tétramine, le menthol, la racine de polygala et les noix d'arec. Par contre, le carbonate de gaiacol, le citrate de fer et le mercure sont en tendance faible. On signale une hausse dans les prix du miel et des noix d'arec, et dans le compartiment des produits chimiques industriels le cours des sels de baryum, et de plomb, des acétates et du sel ammoniac sont en hausse, par suite des prix plus élevés qui sont cotés sur les marchés continentaux.

Zum Marktbericht

Überblick über die wichtigsten Preisveränderungen auf dem Londoner Drogen- und Chemikalienmarkt.

Abkürzungen:—Ton=1016 kg.; Cwt.=50,8 kg.; lb.=453 g.; oz.=28,34 g.; Gal.=4546 c.c.m.

INFOLGE der innerpolitischen Lage über die Käufer grosse Zurückhaltung, und die Umsätze bewegen sich in bescheidenem Rahmen. Eine gewisse Nachfrage macht sich geltend für Acetylsalicylsäure, Bromsalze, Menthol, Arekanüsse und Senegawurzel. Billiger angeboten waren: Guajakolkarbonat, Eisenicitrat und Quecksilber, dagegen Arekanüsse und Honig verkehrten zu anziehenden Preisen. Infolge der regen Nachfrage aus Deutschland dürfte der Preis für Honig seinen jetzigen hohen Stand weiter behaupten. In Schwerchemikalien wurden die Notierungen für Barium-, Blei- und essigsaurer Salze, sowie für Salmiak k heraufgesetzt, auf Grund der gemeldeten Aufwärtsbewegung auf den festländischen Chemikalienmärkten.

Crude Drugs, etc.

AGAR AGAR is quiet at 5s. 6d. per lb. for No. 1, and to arrive 5s. 2d. c.i.f. is quoted; No. 2 is 5s. 3d. spot, and to arrive 4s. 10d. c.i.f.

ALOES.—Cape firsts is quoted at from 40s. to 41s., and seconds at 36s. to 38s. per cwt. Curaçao is in fair demand, with good liver selling at 90s. per cwt. The exports from the Union of South Africa during May amounted to 105,487 lb. (£880), against 38,065 lb. (£206) in May 1923.

ANTIMONY.—The tendency has continued upwards under scarcity of offers. Considerably stiffer terms are now wanted by shippers for Chinese at around £45 c.i.f. for near shipment. Spot lots stand at £47. English brands are quoted up to £55.

ARECA is dearer on reports of small crop, due to adverse climatic conditions. Spot holders asking 70s. per cwt. in ten-bag lots, and 72s. 6d. for single bags; to arrive, 67s. 6d. c.i.f. is asked.

BALSAMS show no change. Tolu is selling at 9s. per lb., and to arrive 7s. c.i.f. is quoted. B.P. Peru is 7s. 9d., and B.P. copaiba has been sold at 2s. 3d. per lb. Canada balsam is in fair demand at 6s. 3d.

BUCHU.—Good green round is quoted from 2s. 11d. to 3s., yellow at 2s. 10d., and oval at 2s. 6d. per lb. The exports from the Union of South Africa during May amounted to 24,384 lb. (£2,916), against 15,442 lb. (£1,919) in May 1923.

CADMIUM.—Supplies from abroad have been arriving on an increased scale, including an important consignment from the U.S., but the tone is steady at about 2s. 5d. to 2s. 9d. per lb. Competition is keen, but the demand is not very brisk.

CANTHARIDES.—Chinese are quoted on the spot at 4s. 3d. per lb. To arrive 3s. 9d. c.i.f. is quoted.

CARAWAY SEED.—There have been a number of failures in Holland as the result of "bear" speculators in caraway seed failing to deliver for September, and this was the cause of the recent advance; but now that the squeeze is over, prices are easier again, prompt shipment from Holland offering at 46s. 6d. per cwt. c.i.f.

CASCARA SAGRADA.—Arrivals aggregating 5,696 packages have taken place this week. Spot bark is quoted at from 80s. to 85s. for new, and to arrive 70s. c.i.f. is quoted, which is an improvement.

CHAMOMILES have been arriving somewhat more freely, but quality has fallen off considerably. Good white is very scarce, but the demand is for flowers, round about 80s. to 85s.

CINCHONA.—At the auction held in Amsterdam, on October 1, 860 packages of pharmaceutical Java bark were offered, aggregating 35,640 kilos. and containing the equivalent of 906 kilos. of quinine sulphate. The demand was good, and in all 596 packages were sold, representing 20,650 kilos. of bark with a content of 483 kilograms of quinine sulphate. The prices realised ranged from 40½ to 131 cents per half-kilo. The next auction will be held on November 5.

CLOVES are firmer at from 1s. 0½d. to 1s. 1d. per lb. on the spot as to quality. To arrive, sellers quote September delivery at 10½d. per lb. and October-December shipment has been sold at 10½d. to 10½d. per lb. c.i.f. and buyers. Near at hand has been sold at 11½d. c.i.f. The week's statistics show landings 192 and deliveries 443, leaving a stock of 20,565, against 23,639 in 1923, and 704 bales in 1922. The landings so far this year have been 38,156, against 44,281, and the deliveries 36,968, against 22,671 in 1923.

COD-LIVER OIL.—Our Bergen correspondent writes on October 6 that the market continues firm at about 114s. per barrel c.i.f. London. The improvement in the Norwegian kroner has also influenced the price.

DRAGON'S BLOOD.—A further six cases reboiled has arrived, for which holders want £38 per cwt.

DIGITALIS LEAVES.—New crop offer at 42s. 6d. per cwt. on the spot.

ELM BARK.—Grinding quality to come forward is offered at 82s. per cwt.

EUONYMUS BARK can be had at 4s. per lb. on the spot.

ERGOT.—New crop Russian or Polish, for November-December shipment, is quoted at 1s. c.i.f. Spanish or Portuguese on the spot can be had at 1s. 1d. per lb.

FUSEL OIL has shown a considerable advance of late, being quoted at £165 per ton, c.i.f. London.

GENTIAN is offered at 36s. per cwt. on the spot.

HONEY.—Further sales have been made at last week's advance, and with the winter approaching, the higher range of prices is expected to be maintained. Amber to pale Jamaica is quoted at from 55s. to 65s., and dark to brown 45s. to 50s. per cwt.

LOBELIA HERB is coming in very slowly from the source, and 1s. per lb. c.i.f. is quoted; spot is worth 1s. 5d. to 1s. 6d.

MAGNESIUM.—Quite fair-sized lots of Continental have been placed of late, including powder, on relatively cheap terms, sticks having been obtained down to 3s. 2d. per lb. c.i.f. British makers, however, have maintained their terms at about 3s. 3d. to 3s. 9d. for sticks and 4s. 6d. to 5s. 6d. for powder.

MALE FERN EXTRACT.—Offers are made for shipment at the lower rate of 4s. 6d. per lb. for 24 to 25 per cent. filicin, delivered London.

MENTHOL.—Although the spot market quotation has been nominally advanced to 55s. per lb. for Kobayashi-Suzuki, it was stated on Wednesday that 52s. 6d. would probably be accepted on a firm order. To arrive, November-December shipment is quoted at 43s. 6d. c.i.f.

MERCURY.—The tendency of the market has been further in buyers' favour, due to the dragging demand, while the disposal of old stocks in dealers' hands makes very slow headway. In the earlier part of the week there were sellers all round at £11 15s., and buyers were

hardly inclined to offer more than £11 10s. per bottle. Home buying has been confined to small lots, and there have been but few inquiries for export. It was reported last week that the Almaden mines had reduced their quotation for export to £13 10s. per bottle net, free on trucks, against their previous limit of £14; but of course the figure now quoted is much above foreign importers' views. There is little doubt that Spanish terms will undergo an important adjustment if their export business is to revive. There is a little more mercury coming forward from certain small producing countries, including South America, and it is reported that some 2,000 bottles of Russian mercury were lately offering on the Continent.

NUX VOMICA.—Cochin is offered at 16s. 6d. per cwt. c.i.f., and Madras at slightly less.

OPIUM.—The following report has been received from Constantinople:—

CONSTANTINOPLE, October 1.—"During the period September 19 to date, arrivals were as follows: Druggists', 536; 'softs,' 176; and Malatia, 171 cases. Stocks included: Druggists', 435; 'softs,' 117; and Malatia, 98 cases. During the past fortnight only 7 cases of druggists' were sold, at £134-36 per oke. Stocks have now increased to 650 cases, and there is an entire absence of any definite demand from abroad. One of the local banks has ceased to advance money on stocks of opium, and another has fixed a credit limit for each client. In spite of this, holders have refused offers of £134 for Malatia. There are numerous sellers, but for the present they are not inclined to reduce their prices, being of opinion that stocks held and future arrivals will not be sufficiently large to influence prices until the next harvest."

PEACH KERNEL OIL.—There are no buyers at 1s. 2d. per lb.

PEPPER.—A fair amount of business has been done at fluctuating prices. Fair black Singapore closed last week at 5½d. spot, but this week there were sellers at 5½d. and the market closes at this price. To arrive, sellers quote September-November and October-December at 5½d. c.i.f. London. White Muntok closed higher last week, sales including spot at 9½d. to 9¾d.; October-December, 9½d. to 9¾d.; November-January, 9½d.; January-March, 9½d. to 9¾d. c.i.f.

PODOPHYLLOM ROOT.—American (*P. Peltatum*) has been sold at 72s. 6d. per cwt. on the spot and for Indian (*P. Emodi*) 110s. c.i.f. is quoted.

RUBBER is dearer, and is fully ¼d. per lb. better on the week, and although spot at the close was done at 1s. 3d., earlier in the week up to 1s. 3½d. was realised. America, for the time being, has stopped buying, with the result that prices have sagged, as the buying orders from elsewhere do not materially affect market conditions. In the East the tendency is very strong, and from recent cables from Singapore it has been observed that prices there have on some occasions been almost 1d. per lb. above the London parity, so that America, in making purchases from the East, has had to pay much higher prices than she would have paid on the London market. Stocks this week were reduced by a further 700 tons. Quotations (Wednesday, 5 p.m.):—No. 1 standard crêpe and ribbed smoked sheet, spot and October, 1s. 3d.; November-December, 1s. 3½d.; January-March, 1s. 3½d.; April-June, 1s. 3½d. per lb.

SEEDS.—The seed market remains the same as last week, being firm, but very quiet, at the following prices:—

ANISE: Spanish, 72s. 6d.; Russian, 60s. **CANARY SEED** keeps firm, but with very little demand; Mazagan, 29s. 9d. spot, and at 28s. 6d. c.i.f. business has been done; Spanish of good quality, 35s. spot. **CUMIN SEED:** Maltese new crop is 85s. spot, and the arrival price is 65s. c.i.f.; Morocco, 80s. to 90s., but no demand.

CORIANDER SEED: New crop Morocco, 25s. on the spot. **DILL SEED** is very scarce at 21s. 6d. Morocco **FENUGREEK SEED** is offered on the spot at 21s. 6d. **HEMP SEED:** Manchurian sound seed, 18s. **LINSEED:** Morocco is firm, with sales at 24s. spot, and 23s. c.i.f. **MUSTARD SEED:** English is 36s. to 38s. per cwt.

SENEGA continues to meet with a fair demand among consumers, and spot quotations remain at 2s. 8d. to 2s. 9d., while to arrive 2s. 8½d. to 2s. 9d. c.i.f. is quoted.

SHELLAC.—The spot market for usual standard TN orange quality has been firm throughout, closing at 320s. to 325s. per cwt.; fine second orange is 360s.; pure button, 340s.; AC cakey, 265s.; and GAL, 255s. The delivery market has been quiet, with sales of December at 295s. to 300s., and March at 290s. The sales to arrive include TN for September-October shipment at 287s. 6d. to 295s. c.i.f., also steamer declared at 302s. 6d., and afloat at 300s. c.i.f.

STARCH PRODUCTS.—Dutch maize starch powder (corn-flour) is quoted at 18s. 6d., and American at 18s. 6d. per cwt. net, on the spot. American maize starch crystals (for laundry use) is 22s. 6d. net, and Dutch crystals is 23s. Best English rice starch crystals is 36s. to 37s., and German 28s. per cwt. Dutch farina is 18s. for superior and 17s. 3d. per cwt. for prime; new crop for October shipment is 17s. per cwt., f.o.b.; superior Dutch (maize) dextrin is 23s., and No. 2 21s. 6d.; American canary dextrin is 21s. 9d., and white 21s. 6d. per cwt., ex store, London.

STRAMONIUM LEAVES.—Sales of new crop have been made at 35s. per cwt.

TURMERIC is steady at from 67s. 6d. to 70s. for Madras finger, and to arrive 60s. c.i.f. is quoted. Cochin finger is 60s., and split bulb 22s. 6d. per cwt.

WAX, BEES', remains firm, with sales of good Benguela block at up to £6 15s., and this price is also quoted to arrive. Mombasa block has been sold at £6 15s. on the spot.

Essential Oils

BUSINESS is fair, the chief interest of the week being Japanese mint oil, which is unusually scarce and dear. French lavender has had another advance at the source. Large consumers are reported to have bought fairly extensively at the recent relatively cheap rates. Ceylon citronella has improved. Bergamot and orange oils are cheaper and Bourbon geranium and vetivert have weakened.

ANISE (STAR).—“Red Ship” on the spot has been in demand, with fair sales at 2s. 5½d. per lb. Smaller lots are quoted up to 2s. 7d. The c.i.f. price to arrive is unchanged at about 2s. 4½d. c.i.f.

BERGAMOT.—Some low quotations for shipment have been current recently for 37 to 38 l.a., but the position has apparently improved slightly; recent prices for December-January shipment are quoted over a fair range according to brand, 13s., 13s. 6d. to 14s. 6d. and upwards being mentioned. On the spot the price is slightly easier with sellers at from 15s. 6d. to 16s.

CAMPHOR.—Further sales of Japanese white in tins and cases are reported at 63s. per cwt. In large drums 60s. is asked. Brown is also offered at 60s. in drums.

CARAWAY.—For prompt shipment, Dutch double-rectified, s.g., 0.910, is quoted at 15s. per lb. c.i.f.; spot supplies are obtainable at 16s.

CASSIA on the spot is steady at from 9s. 3d. to 9s. 6d. per lb. for 80 to 85 c.a. Up to 8s. 9d. c.i.f. is quoted.

CEDARWOOD.—American is very scarce on the spot and small supplies are obtainable at 3s. 1d. per lb. November-December shipment is from 2s. 10d. to 3s. per lb. c.i.f. to arrive.

CINNAMON.—Ceylon leaf has been in demand on the spot. Holders quote 5½d. per oz. For shipment 4½d. c.i.f. is asked. Fair sales of Mysore distillate have been made at 7s. per lb.

CITRONELLA.—Ceylon on the spot is firmer with more inquiry, October-November shipment being quoted at 3s. 9½d. c.i.f. Spot is 3s. 1d. Java is quiet on the spot and unchanged at 5s. 7½d. and 5s. 5d. c.i.f.

CLOVE.—Keen competition prevails for orders, and prices are unsteady. Fair sales of Indian oil have been made at 6s. 9d. per lb. and sellers. English distillers are quoting at the rate of from 7s. to 7s. 3d. per lb. Foreign distillate has been sold at 7s. 3d. in cwt. lots.

EUCALYPTUS is steady. For 70 to 75 per cent. cineol 2s. per lb. is readily paid; for shipment 1s. 11d.

c.i.f. is quoted; 80 to 85 per cent. is 2s. 1d. to 2s. 1½d. on the spot, and for shipment 2s. to 2s. 0½d. c.i.f. is quoted. *E. Citriodora* is obtainable at 8s. 3d. to 8s. 6d.

GERANIUM.—Prices at the source are weakening, American demand being again quieter. Spot supplies are also cheaper, 33s. per lb. being readily accepted in some directions for Bourbon.

JUNIPER BERRY.—B.P. oil on the spot is steady at about 5s. 9d. per lb.

LAVENDER.—A further advance at the source of about 10 per cent. is reported for French oil. A fair demand during the last few weeks for forward delivery is reported. On the spot 38 to 40 per cent. oil is obtainable at 28s. to 29s., 36 per cent. is 27s., and 30 to 32 per cent. 25s. 9d.

LEMON.—New crop prices are irregular; lower prices have been received in some quarters at from 2s. 11½d. to 3s. per lb. c.i.f., but for other brands from 3s. 1d. to 3s. 3d. is asked. Spot values are controlled by fair stocks bought cheaply some months ago, and now offered at from 2s. 10d. to 3s.

LEMONGRASS.—Cochin on the spot is obtainable at from 3s. 9d. to 3s. 10d. per lb. October-November shipment is firmer at 3s. 10d. c.i.f. to arrive.

MINT.—Japanese dementhrolised Kobayashi-Suzuki is extremely scarce on spot. There has been a good inquiry for the Continent. Only isolated cases are obtainable at probably from 18s. to 18s. 6d., and some holders have withdrawn. For a shipment afloat 16s. 9d. c.i.f. was paid on Tuesday. December-January is obtainable at 13s. 9d. c.i.f. The shortage is likely to become acute before the nearest shipment arrives in about five to six weeks, a generous estimate being two weeks' supplies in stock for a six weeks' consuming demand. Importers state that the present position in this article is unique. Nagaoka-Tase brands on the spot are offered at 18s.

NEROLL.—Finest new crop French neroli *pétale* is quoted on the spot at 25s. per oz. Much lower prices are quoted for inferior grades.

ORANGE.—Sicilian sweet on the spot is easier at from 9s. 6d. to 10s. per lb. West Indian sweet has been selling in fair lots at the cheaper rate of 8s. per lb., at which there are sellers.

PALMAROSA on the spot is quiet and unchanged at 15s. 6d. per lb. in original pots.

PENNYROYAL.—Spanish on the spot has been in fair demand; dealers quote 6s. 9d. per lb.

PEPPERMINT appears to have recovered from last week's slight decline. Sales include a parcel of American about landing at 27s. per lb., and spot value is represented by 27s. to 27s. 6d. To arrive, 26s. 9d. to 27s. c.i.f. is quoted for good brands. H.G.H. is 33s. A normal crop of American oil is about 450,000 lb., but this year, according to what are regarded as reliable authorities, the yield is about one-half, added to which there is no “carry-over,” so that there is little possibility of lower prices. It would appear that important purchases have had to be made by large American consumers, and this keeps the undertone firm. The situation is also influenced by the menthol position. Franco-Mitcham oil is dearer on the spot at 42s. 6d.

PETITGRAIN.—Paraguayan on the spot has been in demand, with sales at 9s. to 9s. 3d. per lb.

SASSAFRAS.—Genuine American is steady at 7s. per lb., or less for quantity.

SPEARMINT is firm at the recent advance, with reports of a poor crop yield; sellers quote 16s. 6d. per lb.

SPIKE.—Small spot sales have been made at 6s. 6d. per lb. for fine quality French. Spanish oil has been in good demand, and spot is firm at 4s. 9d. per lb. for good quality oil. For shipment 4s. 9d. c.i.f. is quoted.

VETIVERT.—Bourbon is weaker at the source, and in some directions spot is also cheaper with sellers at from 44s. to 45s. per lb.

WORMSEED.—American is firm on the spot, and some importers have advanced prices slightly. From 26s. to 26s. 6d. is quoted, as to seller.

Aromatic and Synthetic Chemicals, etc.

Amyl salicylate ..	4/-	Ionone β ..	38/-
Aubepine ..	12/- to 12/6	Iso-eugenol ..	15/- to 16/-
Benzaldehyde f.f.c.	3/1 to 3/3	Methyl anthranilate	8/6 to 9/-
Benzyl acetate ..	2/6 to 2/9	" salicylate ..	1/10 to 2/-
" alcohol ..	2/9	Musk ambrette ..	42/-
" benzoate ..	3/-	" xylool ..	13/-
Citral ..	8/- to 9/-	Phenyl acetic alde-	
(i) ionellol ..	18/-	hyde ..	23/6
Coumarin ..	17/6 to 18/6	Phenyl ethyl alcohol	13/6 to 14/6
Diphenyl oxide ..	4/-	Safrol ..	1/10 to 2/-
Ethyl phthalate ..	3/9	Terpineol (chem.	
Eugenol ..	10/-	" pure) ..	2/- to 2/3
Geranial ..	11/- upwrd	commercial ..	1/9
Heliotropine ..	6/3 to 6/6	Thymol ..	16/6 to 17/6
Ionone 100% ..	20/-	Vanillin ..	24/6
Ionone a ..	45/-		

Pharmaceutical Chemicals, etc.

BUSINESS has been of fair dimensions this week, but is still confined to a limited number of products. Conditions on spot are steady, and reflect the position on the Continent, where there is a slight indication of firmer conditions.

ACETANILIDE is steady but quiet on spot, with supplies available at about 2s. 1d. per lb.

ASPIRIN continues one of the firm items in this section, with sales satisfactory at the old price of about 3s. 3d. per lb. for good brands.

BARBITONE is easier this week, with dealers quoting down to about 15s. per lb.; market dull.

BENZALDEHYDE, free from chlorine, is not active. The market quotation stands at 3s. 1d. to 3s. 5d. per lb.

BENZOIC ACID.—For B.P. 3s. per lb. is still quoted, but less would be accepted; ex toluol is about 2s. 6d. per lb.

BENZONAPHTHOL is neglected, with the quotation nominal at about 5s. 6d. per lb.

BETANAPHTHOL.—Resublimed could be obtained slightly under the quoted rate of about 3s. per lb.

BROMIDES.—The position is rather difficult to estimate at the moment. Quotations on this market to arrive are about the same, but actual business would appear to be at lower rates, making the market somewhat easier. Ammonium, about 1s. 4d. per lb. or less; potassium, B.P. crystals and granular, 1s. 1d. to 1s. 2d. per lb.; sodium, B.P. crystals and granular, 1s. 2d. to 1s. 3d. per lb.

CALCIUM LACTATE has been moving off fairly well, with sellers asking 1s. 6d. to 1s. 9d. per lb., according to quantity.

CHLORAL HYDRATE shows a recovery after last week's decline, and there is little available on spot under 4s. 3d. per lb. for duty paid.

CITRIC ACID.—Conditions remain as reported last week. Spot B.P. crystals offered at 1s. 3½d. to 1s. 4d. per lb., less 5 per cent., with any sales well under this figure; market still weak.

CREOSOTE.—B.P. continues to be offered at about 2s. 6d. per lb., with hardly any interest shown.

CREOSOTE CARBONATE is quoted at about 6s. 3d. per lb., with inquiry small.

ETHERS.—Makers quote ethers made from pure spirit as follows: s.g. 0.735 B.P. 1898 at 8s. 4½d. per lb.; s.g. 0.720 B.P. 1914 (for anaesthesia) 9s. 0½d.; twelve W. qts. 4d. per lb. less Acetic ether B.P., 5s. 5d. per lb.; twelve W. qts. 5s. 2d.

FERRI AMMON CIT. VIRIDE.—Makers have reduced prices, and now quote from 2s. 11d. to 2s. 6d. per lb., according to quantity.

GUAIACOL CARBONATE is cheaper, with dealers quoting round about 11s. per lb.

HEXAMINE is steadier, with a fair business being done on spot. Dealers offer at about 3s. 3d. to 3s. 1d. per lb., according to quantity.

HYDROQUINONE continues to be quoted on spot at from 4s. 3d. to 4s. 9d. per lb., with a moderate business passing.

LACTIC ACID.—Dealers' prices for B.P. are steady at 2s. 8d. per lb. Technical, 45 per cent., by weight, is about £45 per ton on spot.

MENTHOL (SYNTHETIC).—Makers quote from 26s. to 35s. per lb.; demand is increasing. B.P. recrystallised is 52s. per lb.

METHYL SALICYLATE is firm as quoted at 1s. 10d. to 2s. per lb. Business has been a little better.

METHYL SULPHONAL is steady but slow, with dealers offering on spot at 25s. 6d. to 26s. per lb.

PARAFORMALDEHYDE is at cheap prices in some quarters, with the price about 2s. 7d. per lb. for big lots. Other spot holders are asking about 2s. 8d. to 2s. 9d. per lb.

PARALDEHYDE has been in better request, with the quoted price fairly steady at about 1s. 5d. per lb.

PHENACETIN has been selling on spot in small lots with dealers obtaining from 5s. 9d. to 6s. per lb.

PHENAZONE.—Conditions on spot are healthy, with holders refusing bids under about 7s. 4d. for large lots and 7s. 6d. for small parcels.

PHENOLPHTHALEIN is unsteady on quotation, with some offers said to be under 6s. per lb.; other quotations run up to 6s. 3d. per lb.

POTASSIUM PERMANGANATE (B.P.) is firm on spot at about 7d. per lb. Continental offerings have advanced.

RESORCIN continues to be quoted at about 5s. 9d. to 6s. per lb., with the demand small.

SACCHARIN is steady at the old figures of 62s. 9d. to 65s. per lb., duty paid, according to quantity.

SALICYLIC ACID is steady on spot, with business moderate in the region of 1s. 6d. to 1s. 6½d. per lb.

SALOL is well held as quoted from 3s. 6d. to 3s. 9d. per lb., with the market moving towards the higher figure.

SODIUM BENZOATE is offering on spot from 2s. 6d. to 2s. 8d. per lb., with the market quiet.

SODIUM SALICYLATE keeps fairly steady at level rates. Business has been limited to rather small sales. Dealers offering spot supplies quote B.P. powder about 2s. to 2s. 3d., B.P. crystals about 2s. 2d. to 2s. 5d. per lb., and flake 2s. 9d.

SPIRIT PREPS.—Makers quote spirit, aether, nit. s.g. 0.850 at 4s. 6d.; B.P. s.g. 0.842 at 4s. 7d. per lb., and 1d. less for six W. qts; spirit. aminon. aromat. B.P. is 3s. 6d., and 3d. less for six W. qts.

SULPHONAL is steady but in small request; dealers quote at about 15s. 3d. per lb.

TANNIC ACID.—B.P. leviss is steadier this week but in poor demand. Spot 2s. 10d. to 2s. 11d. per lb.

TARTARIC ACID.—The market quotation continues at about 1s. per lb., less 5 per cent. for B.P. crystals. Sales have been slow and small at under this figure; market still unsteady.

TERPIN HYDRATE is quiet but steady in price as quoted at about 1s. 9d. per lb.

VANILLIN is steady and in occasional call as offered by dealers at about 24s. 6d. per lb.

Industrial Chemicals, etc.

London, October 8.

THE tone of the spot market is now very steady and there are not wanting indications of rather firmer conditions in a number of products. This move is due to dearer quotations from the Continent, and it would not be surprising to see developments affecting practically the whole market in this direction. Business has been fairly good, but is still for limited quantities.

ACETIC ACID is very steady, with sales on spot satisfactory: 80 per cent. technical, £44; 80 per cent. pure, £45, per ton, in barrels; 98 per cent. glacial, £68 to £69 per ton, in glass demijohns, ex wharf, London. Continental position is firm.

ACETONE is dull and the quoted price of about £95 per ton for B.G.S. is not firm.

ALUM is steady but slow of sale as offered at about £9 15s. per ton, for lump, in casks.

AMMONIA (ANHYDROUS).—Importers' prices are well held at 1s. 5½d. to 1s. 6d. per lb. for 99.95 per cent. in loaned cylinders; business quiet.

AMMONIUM CHLORIDE is inclined to be a little firmer, with dealers likely to move their price up from £29 10s. to £30 per ton, if the stronger conditions on the Continent hold.

ARSENIC has remained idle, and it is possible that this will continue so until conditions across the Atlantic turn for the better. Terms, delivered London, for Cornish powder range from about £44 10s. to £44, and business can apparently be done at the mines at around £42 f.o.r.

BAIRUM CHLORIDE is steadier at the spot price of close up to £13 per ton for 98 to 100 per cent. fine white crystals, but sales are small. Cheap offers for shipment from the Continent are still on the market.

COPPER SULPHATE.—There has been rather more demand for export, and enhanced terms have been asked by the British Makers' Association on the basis of £25 to £25 10s. f.o.b., for casks, less 5 per cent. Business, however, might be done at less with certain makers who are outside the combine.

CREAM OF TARTAR.—Dealers' prices for B.P. run from 80s. to 81s. per cwt. Business has been slow, but there is a fairly steady tone.

EPSOM SALT is slow, with dealers quoting at about £5 per ton, for commercial quality, in bags.

FORMALDEHYDE shows no sign of any improvement. Prices run from £49 per ton upwards for 40 per cent. volume, with very little good business on the market.

GLAUBER'S SALT continues to drag, with offerings at about £3 12s. 6d. per ton for commercial quality in bags.

LEAD PRODUCTS.—There is no change in importers' prices; market steady with some inquiry about: red lead and litharge, about £42; white lead, dry, about £43; ground in oil, about £45 per ton, e.i.f. London; lead acetate, brown, £44; white, £45 per ton.

LITHOPONE is much steadier and may recover a little: 30 per cent. Continental red seal is firm on spot at £19 10s. to £20 per ton, with good business being done.

OXALIC ACID is persistently dull, with offers easy as mentioned at 3½d. to 4d. per lb. on spot; some sales are at cheaper rates.

POTASH CAUSTIC is much firmer at higher rates and may continue to advance. Spot, 88 to 92 per cent., solid, fully £31 5s. to £32 per ton, in drums. The Continental f.o.b. quotation is well up to £29 10s.

POTASSIUM CARBONATE is moving up with the Continental prices: 90 to 92 per cent., about £22 10s. to £23: 96 to 98 per cent., about £24 10s. per ton, on spot.

POTASSIUM PERMANGANATE is firmer and likely to advance from the present rate of about 6½d. to 6d. per lb., for commercial quality, in drums.

POTASSIUM PRUSSIATE is firm with Continental at 6½d. to 6d. per lb. on spot for yellow.

SALT AMMONIAC is much steadier after recent reductions in prices, and business has been quite good: dog-tooth crystals, £43; medium, £40; fine white crystals, £25 10s. to £26 per ton, on spot.

SALTCAKE is steady at about £3 7s. 6d. and upwards per ton, f.o.b. Some inquiry for limited quantities available.

SODIUM ACETATE is dearer and firm at about £23 10s. per ton for spot supplies; a fair business has been done.

SODIUM BICARBONATE.—British makers continue to quote for home trade only at £10 10s. per ton, in bags, carriage paid.

SODIUM HYPOSULPHITE is none too steady as quoted, with the demand quieter. Pea crystals, about £13 17s. 6d. per ton, in one-cwt. kegs; commercial quality, about £9 per ton, in casks.

SODIUM NITRATE remains flat with prices unchanged: 96 per cent., £13 5s., and refined, about £13 10s. per ton, f.o.r. docks, London. Liverpool prices 2s. 6d. per ton less.

SODIUM NITRITE is level on the week, with prices at £26 to £26 10s., but there is no life in the London market.

SODIUM PRUSSIATE is steady and meeting with a small business, with British selling at about 4d. per lb.

SODIUM SULPHIDE is quite neglected. Dealers offer .60 to 62 per cent. solid at £14, and broken at £15 per ton, in drums.

COAL TAR PRODUCTS, ETC.—Pitch continues flat and is again at cheaper rates. Other products are quiet, but prices are maintained. ANILINE OIL from British makers is quoted at 7½d. to 8d. per lb., naked, ex works. ANILINE SALT is offered at 8½d. to 9d. per lb., naked, ex works, by British makers. BETANAPHTHOL is seldom called for: the market quotation is at 1s. 1d. per lb. TOLUOL.—Pure, 1s. 8d. to 1s. 8½d.; 90's, 1s. 5d. to 1s. 5½d. per gallon; market dull. XYLOL.—Pure, 3s. 3d.; commercial, 2s. 3d. per gallon; inquiry is poor—quoted price unchanged. CREOSOTE OIL is fairly steady, but there is very little inquiry: ex works, 5½d., and f.o.b., 6½d. per gallon. CARBOLIC ACID crystals are quoted at about 6d. to 6½d. per lb., f.o.b. in large bulk packing; demand is quiet. Crude 60's is 1s. 7d. to 1s. 9d. per gallon, according to district. CRESYLIC ACID remains quiet, but there is no further fall in value: 97 to 99 per cent., about 2s. to 2s. 1d. per gallon; pale 95 per cent., 1s. 9d. to 2s. 1d. per gallon; dark, 1s. 9d. to 2s. 1d. per gallon. NAPHTHALENE.—Market unsteady and dull: makers quote crystals and flaked at £12 to £16 per ton, according to district. Pure METHYL ALCOHOL is seldom inquired for; dealers offer in London at about £75 per ton, in drums. HEXAMETHYLENE is available at about 3s. 3d. per gallon, London; inquiry very poor. PYRIDINE is worth about 18s. 6d. to 19s. per gallon in quantities: business is slow and small. PITCH.—The f.o.b. East Coast quotation is now recorded at 4s. 6d. per ton, showing a further fall on the week. The market remains more or less idle.

Fixed Oils, etc.

A GENERALLY healthy tone continues in most directions in this section. Prices, where they have now advanced, have been maintained and business seems to have been on a larger scale. ACID OILS are firm at high prices: coconut and palm kernel scarce at 45s. 6d.; groundnut, 40s.; soya is easier at 37s. 6d., all spot. CASTOR.—Prices are unchanged and market is firm: pharmaceutical, 78s.; first pressings, 78s.; second pressings, 71s., all spot, in barrels in not less than one-ton lots. Madras, afloat, 73s. COCONUT.—Market holds steady, but has been quiet all the week: deodorised, spot, 54s. 6d.; Ceylon, 46s. 6d. c.i.f.; Cochin, 60s. c.i.f. COTTON.—All grades show a reduction in price, but the market closes very steady: deodorised, 54s.; common edible, 52s.; soapmaking, 48s.; crude, 45s. 6d., all spot. GROUNDNUT.—Firm at level rates on the week: deodorised, spot, 60s.; crude Oriental, 54s. 6d. c.i.f. LINSEED (raw, naked).—The market closes firm after a week of good business and advancing prices: on spot,

45s.; October, 44s.; October-December, 44s. 1½d.; January-April, 43s. 9d. to 44s.; Hull, on spot, 43s. 7½d.; October, 43s. 9d.; October-December, 43s. 7½d.; January-April, 43s. 7½d.; boiled linseed oil, 41s. 3d. spot. PALM KERNEL.—Market rather firmer at the close: deodorised, 50s. 6d.; crude, 46s., all spot. PALM.—A sharp advance for ail grades is recorded, with the market really active: Lagos, 42s. 9d.; softs, 41s. 9d.; mediums, 41s. 9d.; hards, 41s. 3d.; bleached, 44s. 9d., all spot. RAPE.—A firm market at higher rates; business is good: refined, 55s. 6d.; crude, 52s. 6d., all spot. SOYA.—Higher prices are asked, but the market is dull: deodorised, 52s. 6d.; crude, 49s., all spot. TURPENTINE.—After improving distinctly again early this week on a fairly good home trade demand and firmer American advices, the market subsequently reacted, owing to some liquidation by dealers, while cable advices from Savannah were later easier. The deliveries here last week were 1,783 barrels, making the total since January 1, 74,256 barrels, against 71,697 barrels same period last year. The stocks were 38,214 barrels. Spot market closes at 64s. 6d. per cwt.; September-December, 66s.; January-April, 66s. 9d. WOOD.—A further advance to 87s. 6d. per cwt. for Hankow in barrels on spot is recorded.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Matters are still rather quiet in this section, and there is no change of importance to record. Lubricating oils, however, are none too steady as quoted. BENZOL is steadier, but there is no change in values: crude 60's, about 10d.; standard motor, about 1s. 3d.; pure, about 1s. 7d. per gallon, ex works, in tank wagons; f.o.b. prices, including free drums, about 6d. per gallon more. FUEL OIL is steady at recent reduced prices and business quiet: 950 gravity, £3 17s. 6d.; 890 gravity, £4 17s. 6d. per ton, ex tank. PARAFFIN WAX and SCALE.—Wax market is again firm, with prices ranging from 3½d. to 5½d. per lb., according to melting point, in bags; scale is firm at dearer prices of about 30s. 6d. per cwt., c.i.f. U.K. ports. SOLVENT NAPHTHAS remain dull with no further alteration in prices: 90 to 160 and heavy, 90 to 190, about 11d. per gallon. PARAFFIN OILS.—Markets firm; American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free; Russian prime white kerosene, 6½d. to 7d., ex tank; 7½d. buyers' barrels filled free; 10½d. per gallon, barrels free, ex wharf, London. PETROLEUM JELLIES.—Business quiet, but prices are firm: white to snow white, £63 to £68; amber and yellow, £25 to £28; red vet, £22 5s.; dark stiff green, £19 per ton, barrels free, ex wharf, London. WHITE OILS.—Market quiet; no change in values: Special No. 1, £40; No. 1, £35; No. 3 half-white, £27; No. 4 half-white, £19 per ton, drums and barrels free, ex wharf, London. LUBRICATING OILS.—Business does not appear to be anything like active. No material change in shipping rates or on spot are recorded, and generally the position is unchanged: pales, £13 to £26; reds, £14 10s. to £27; dark cylinders, £15 10s. to £35; filtered cylinders, £22 15s. to £30 per ton, less 2½ per cent., ex wharf, London. Soluble oil, £20 to £29 per ton, net. No. 1 RUSSIAN OIL is steady as quoted at £18 5s. per ton, less 2½ per cent., ex wharf, London.

Business Changes

TIMOTHY WHITE CO., LTD., have opened a branch at 8 Manor Parade, Sutton, Surrey.

MR. JAMES DAVIES, chemist and druggist, late of Higher Broughton, Manchester, has purchased the business of the late Mr. J. B. Davies, chemist and druggist, Bromyard, Worcester, as from September 24.

BURKETT, SHARP & CO., LTD., 21 Mincing Lane, London, E.C.3, have acquired the business of Mangold Brothers, chemical merchants, 17 Harp Lane, E.C. Mr. L. A. Mangold will continue to conduct the business.

S. B. PENICK & CO., crude drug merchants, 117 Fulton Street, New York, U.S.A., have appointed The Old Strand Chemical and Trading Co., Ltd., Audrey House, Ely Place, London, E.C.1, as their sole agents in Great Britain and Ireland.

AUGUST FABER & CO., 60 Mark Lane, London, E.C.3, announce that their senior, Mr. Edmund Faber, having decided to retire from business, the partnership existing between him, Mr. C. H. Thornhill and Mr. H. W. Garraway has been dissolved as from September 30. They also announce that a company has been formed to take over the goodwill of the old business, under the style of August Faber & Co., Ltd., at the old address. (See New Companies.)



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Belgian Chamomile Cultivation

SIR,—As one of the biggest exporters of chamomiles to your country, we feel obliged to comment on some of the statements you publish in your issue of October 4, under the heading of "Belgian Chamomile Cultivation." The calculations made by the "Journal de Pharmacie de Belgique" are theoretically accurate except that your correspondent has overlooked the fact that the fresh flower, as collected from the plant, loses five times its dry weight, viz., that five kilos of fresh flowers produce only one kilo dried flowers. Further, the average fresh collection on one hectare is about 7,500 kilos, which consequently produces a final yield of dry flowers of about 1,500 kilos, under the best conditions. The cultivation of chamomile flowers is very easy, but these flowers want appropriate soil, and it takes about five years to grow a sound, strong plant that will produce a normal crop. If the cultivation is done by plantings there can be obtained a yearly crop of strong, medium-sized plants, but the plants are difficult to obtain, as cultivators prefer to destroy them rather than sell them to their neighbours. Further, the main problem for the producing of chamomile flowers is the question of the collection. No cultivator in Belgium would dream of planting one hectare of chamomiles, because he would not be able to obtain the labour for collection. It requires particular skill to distinguish the ripe flowers from the others, and only the ripe flowers are merchantable. Skilled labour is very scarce, and for this reason every cultivator plants only a relatively very small acreage. An average size of a chamomile plot is about one-tenth of one acre. Last year the prices paid to the cultivator ran from 27 to 32 francs, but these high prices incited growers to slightly increase the surface of their plots under cultivation, with the result that there seemed to be a serious over-production, and prices have dropped from 32 francs to 4 francs per kilo. However, owing to continuous rains and the low prices about three-quarters of the crop has been left on the fields, and what is collected is of exceptionally bad quality. There are only very few parcels of good description this year.—Yours sincerely,

L. VAN DAMME & Co.

Brussels.

The Cause of Cancer

SIR,—Mr. B. Gorton (*C. & D.*, September 27, p. 471) does not to my mind grasp the fundamentals of my letter. He asks where would the liver gland be without the sexual glands; thousands of animals are living and thriving which have had the sexual glands removed, but I do not know of a single instance of one that has lived or is living with the liver removed. Can Mr. Gorton enlighten me on the matter? I still maintain that the liver is the most important gland, and every other gland depends directly or indirectly upon its healthy working for their varied secretions. Would we get the digestive secretions if we had not the liver to assist their formation? The liver of habitual spirit drinkers is never normal in colour, and the colour is essential for glycogen formation just as chlorophyll is essential for starch formation in plant life. Man is only partially carnivorous. What would be the effect upon man if he lived entirely upon flesh, the same as true carnivorous animals? The statement regarding the length of intestine was given as comparative. Usually the human and herbivorous intestine is very much more than 30 ft. in length, while that of carnivorous animals is considerably less than 30 ft. Mr. Gorton is not entirely correct in his remarks regarding the media of

the different intestines. Dogs vary so much in many ways, from "poms." to mastiffs and St. Bernards, so that there is a very wide range also in their diet. I hope to deal more fully with this at a later date. The wearing of coloured clothing is a contributory cause to many diseases, cutting off essential rays of light. I wonder if Mr. Gorton or Mr. Day can inform me if yeast is used by Egyptians or Indians? It is most powerful in its action upon starches, both vegetable and animal, and if excessively used may prevent true glycogen formation. All animals are not carnivorous, only partially so. Vitamins were mentioned in the centre of my letter, also at the end. Saltpetre acts as an oxidising agent under certain conditions, and creatinine is produced from creatin by hydrolysis; it destroys water-soluble vitamins and modifies oil-soluble ones. The liver of meat eaters using meat preserved with saltpetre or otherwise is like grained wood. Again the colouring matter has been interfered with, also the glycogen formation. Can Mr. Gorton tell me why Chili, the land of nitrates, is spoken of as an arid desert with little or no vegetation? Mr. Gorton is confused over the urine, for his remarks bear no reference in any way to what I said. He should carefully read the whole thing over again, and he will then see the sense if he understands the terms I have used. Chemistry of the glandular secretions cannot be ignored in cancer.

Yours faithfully,
J. R. HUCK.

Barnard Castle.

Small Doses of Alkaloids

SIR,—The interview with Dr. Martindale on the subject of the new edition of the "Extra Pharmacopœia" (*C. & D.*, October 4, p. 494) contains several items of peculiar interest to the pharmacist. The work on the use of alkaloidal salts in suitable solution will be of immense advantage to us if medical men prescribe them in this way, as the small amount proved to be effectual in such a method of exhibition would, as you state, be well out of the reach of the Dangerous Drugs Acts. Doctors have never been noted for their adherence to regulations—in fact, in many cases they seem to ignore them deliberately—and between the prescriber on the one hand and the inspector on the other, the pharmacist who handles scripts containing "dangerous" drugs has a very difficult task. I was amused by the suggestion that the Ministry of Health should experiment in dosage on its own staff. I am afraid that there is a great gulf between precept and practice in most Government Departments. At the present time the Ministry of Health is broadcasting a series of talks on health topics, and in one such talk an invitation was given to the public to send suggestions as to what subjects would be most interesting to listeners. As a pharmacist engaged in Insurance work, my first impulse was to write a few pages on how the panel service could be improved, but I realised that it would have been a waste of time.

Faithfully yours,
LISTENER (6/10).

What is a Reasonable Profit?

SIR,—Lord Leverhulme's remarks at the opening of the Grocers' Exhibition (*C. & D.*, September 27, p. 462) indicate that the burning question half a century ago was the same as it is now: "What is a reasonable profit?" Lord Leverhulme's reply to this was: "What he is entitled to." Unfortunately, the amount anyone is entitled to varies considerably in the minds of the two parties to a transaction. Chemists, as a class, seem to be afraid of charging a reasonable profit, particularly with regard to the work which really requires it, namely, dispensing, and so we have a scale of charges which any other profession would dismiss as contemptible. We have passed through many events since Lord Leverhulme's early days, not the least of the things we have had to suffer being the Profiteering Act; fifty years ago there was no "stunt" Press to magnify the overcharge of a halfpenny into a national calamity, and

the man who consistently overcharged was brought to reason by loss of custom. Cutting seems to have been as much trouble in those early days as now, but among chemists there is a type arising to-day who tries to cut everything. We can understand, although we may deplore, the attitude of the man who cuts a prominent line as a draw, but to try to undersell one's neighbours on all classes of goods can only be a mild form of insanity. Such a man can have no idea of elementary business requirements, and carries on until he is surprised to find that, although his turnover may be up, his profits are down. It may be said that such a policy cannot continue; possibly, but in the meantime it is doing inconceivable harm to the trade at large, without even benefiting the man who commences it.—Faithfully yours,

REMINISCENT (29/9).

Examinations

SIR.—The speech of the President of the Pharmaceutical Society at the opening of the Society's School session is sound, Yorkshire common-sense, and is very welcome in place of some of the perfervid piffle of the past thirty years. Especially welcome is the sentence: "We . . . accept the School Leaving Certificate . . . while still advising matriculation." Advise anything you like, but don't tie yourselves down with the laws of the Medes and Persians in a country like ours, with such wide varieties of trade as we have, from Land's End to John o' Groat's. Also, biology as an alternative to botany is a godsend, if it contains physiology along with biology; if it doesn't, then it is a mistake. "4,000 hours." Oh, help! Do let us have it in days, weeks or years. As one parent said to me to-day when we were talking over the question of apprenticeship, "How long has your boy served?" Can you hear one parent ask another? "Oh, 2,000 hours!" Imagine the comments! Do you think that such childish talk as 4,000 hours is going to commend us as a trade to the solid British parent? It sounds like trade unionism, which is anathema to most people to-day—and with reason. . . . I would very much like to hear the comments of North Country parents on it. . . . You will never get proper hold over apprentices: (1) Until the Preliminary examination is on the Apothecaries' Hall basis, viz., a certificate from a good school that the applicant has had a satisfactory elementary education; because the great majority who stay in the trade have never passed, and will never pass, even the examination for the School certificate, and they are the best workers. (2) Until the registrar writes to each student twice a year, recommending books and the keeping of a note book for the first year (as in Germany). (3) Until marks are granted to each such student for his home work, in order to encourage him to go on with books like "Squire," "Martindale," "The Art of Dispensing," and the "B.P." (reduced to a tenth), all of which help him in learning the trade—the actual everyday trade, not mere ancient drivel like the hypothesis of Avogadro. (4) Until the President orders a bonfire of old school books, and lays down in the syllabus a list of modern text-books on the same excellent lines as his own book on chemistry. He need not do it as an edict; let it be a "recommendation." If the Pharmaceutical Society attempt to move by edicts, they will get what the dentists got, and richly deserved. If they do it by recommendations, they can practically do what they like; and the drug trade will like it, too, just as it will certainly like the President's warning about "pictures" and "listening-in" instead of reading.

Yours, etc.,

JAY MACK.

Recruits to Pharmacy

SIR.—The President of the Pharmaceutical Society, in his address at the opening of the eighty-third session of the School of Pharmacy, gave the statistics obtained from the University of London as to the number of students who gained certificates during the year equal to Matriculation standard (*C. & D.*, October 4, p. 503). The number of London students alone was over 14,000,

and these would be acceptable under the new regulations of the Society. I hope that the President was not quoting these figures with an eye to the 14,000, or any appreciable number of them, registering as pharmaceutical students, however advantageous it might be to the funds of the Society, for the moment at any rate. The list of students registered since the previous meeting of the Council contains no less than 381 names, and one is struck with the large proportion of girls who are now entering. In this respect, although there is still a great deal of unemployment among qualified assistants, I have noticed that the advertisements by lady pharmacists for employment are not by any means numerous in the *C. & D.* Supplement, although there is a fair number by lady dispensers, etc. Can it be that there is a steady demand for lady pharmacists, or do many of those who enter as students fail to complete their studies?

Yours, etc.,
Ex STUDENTIA (4/10).

Poison Labelling Order

SIR.—The new labelling order is going to be for retailers more than "an unmitigated nuisance," as you term it in your editorial article (*C. & D.*, August 9, p. 230); it will be found, I think, in practice to be a very heavy blow to business. There are three classes of sales which it will affect—own proprietaries, retail drug sales, and counter prescribing. The first class, proprietaries, will probably be affected least, as they are already labelled to comply with the Pharmacy Act. All that is required is to put the actual proportion or percentage on the label in place of the words "small proportion," and I do not think this will make much difference. As for retail drug sales, such recipes as "All Fours," as you point out, will require to be labelled with the name and proportion of tinct. opii and tinct. camph co., and if this were all a standard mixture could be kept ready; but, unfortunately, no two customers have identically the same recipe—one person adds acid, acetic, another vin. ipecac., vin. antim., syr. scil'e, and so on—so that each sale will require the proportion to be worked out and written on the label, a totally unworkable and unprofitable procedure during the rush hours in the evening. Many other household recipes will come under the order, and each one containing a scheduled poison will have to be worked out and labelled separately. But it is the third class, counter prescribing, which is going to be hit most; it will become necessary to restrict the ingredients to drugs not included in the order or to declare the contents on the label, so that either way we shall be handicapped. I can, of course, hear the remark, "You have no business to prescribe"; if everyone stuck to their own business we should have no necessity to do so.—Yours truly,

COUNTERITE (11/8).

Old Remedies

SIR.—I have met with many pharmacists, but never one who had seen and handled one of the perpetual pills (i.e., of antimony) referred to by "Xrayser II"; but one would imagine they exist in numbers—however small. The one I saw was enclosed in solitary state in a gold-fitted case. I saw recently in an old shop-drawer some quassia cups. In my apprenticeship days these were often met with, but even fifty-five years ago they must have been practically out of date. I certainly never sold one.—Yours, etc.,

J. P. N. (8/10).

Fox Talbot

A correspondent (*G. H.*, 26/9) writes:—"In your comments on the activities of William Henry Fox Talbot (*C. & D.*, September 27, p. 439), in the last sentence you state, 'He also discovered the insolubilising action of light on bichromated gelatin.' This is incorrect. Credit for this should be given to Mungo Ponton, who died at Clifton in 1880. In May 1839 he published to the Society of Arts for Scotland his discovery that bichromated gelatin becomes insoluble under the action of light."

Legal Queries

B. M. (1/9).—It is not illegal to advertise contraceptives, but newspapers, as a general rule, do not accept such advertisements.

Curious (25/9).—"Pectoraline" is not a dutiable title under the Medicine Stamp Acts, if no proprietary rights are claimed in the name.

J. A. G. (17/9).—Hyoscine tablets, irrespective of strength, come within Part I of the poisons schedule of the Poisons and Pharmacy Act.

B. & S. (19/9).—The label for "balsam for the chest, lungs and throat" would render the preparation to which it is attached liable to medicine-stamp duty.

W. A. (6/10).—Assistants' holidays are a matter of arrangement at the time the engagement is made. At the same time employers recognise the need for holidays and grant a fortnight's leave annually after the first year, when a shorter time is generally allowed.

W. R. (24/9).—The Home Office interpretation that pulv. ipecac. co. mixed with aspirin in equal parts brings it within the Dangerous Drugs Regulations still applies. It is, as you say, anomalous that if you weaken a drug by dilution it becomes more "dangerous."

E. L. (29/9).—The Factory Act eye-drops may be supplied to factory owners without an order or prescription, but you will need to obtain his signature in the Poisons Book and give the cross reference to this in the Dangerous Drugs Act Register. See *C. & D. Diary*, 1924, p. 258.

Esor (2/10) is the owner of freehold houses on a main road, in a Surrey village. On the opposite side of the road an advertisement hoarding has been erected which obstructs the view of three of the houses and, consequently, diminishes their value. Has he any redress? ["Esor" has no remedy as the mere obstruction of a view is not actionable.]

C. C. (3/10).—The use of a surname in the possessive case as the title of a medicine takes it out of the category of "known, admitted and approved" remedies. There are exceptions, however, each of which was especially obtained as rulings from the Board of Customs and Excise. These include Blaud's pills, Easton's syrup, Parrish's syrup, Stokes's liniment. We showed the Board that there had never been any claim for exclusive right of sale with these articles.

South Woodford (3/10) is employed as a dispenser at a salary of £3 a week. He does not belong to any society, union or club. His National Health and Unemployment Insurance cards are regularly stamped, and at the end of each six months he retains them. Is he liable to be prosecuted for so doing? [The regulations require that cards shall be handed over at the expiration of their currency and by retaining them "South Woodford" is committing a technical offence for which he is liable to be prosecuted and fined.]

A. J. T. (16/9).—No stamp is required upon documents issued by Insurance Committees as receipts for money paid to them by chemists or doctors. Such receipts are specifically exempted from stamp duty. The section of the new (Consolidating) National Health Insurance Act, 1924, is as follows:—

100.—Stamp duty shall not be chargeable upon the following documents in connection with business under this Act, namely: Draft, order or receipt given by or to an approved Society or branch or Insurance Committee in respect of money payable in pursuance of this Act.

P. J. B. (22/9) recently cashed a cheque for a customer. The cheque has been returned marked "Refer to drawer." The drawer of the cheque ignores applications for payment of the money. How should "P. J. B." proceed to recover the amount? [As we do not know how the cheque was made out or the circumstances in which it was cashed, we are unable to give any definite advice. If, however, the cheque was drawn in favour of the customer who cashed it, both he and the drawer are liable to pay the

amount to "P. J. B." In that event, "P. J. B." should sue the customer and the drawer jointly in the County Court. If he can trace only one of them he can sue that one.]

Quassia (22/9) became a yearly tenant of a combined house and shop in 1912, and he has continued to reside on the premises ever since. The rent was originally £30 per annum; but it has since been raised by 40 per cent. to £42. "Quassia" has been given half a year's notice to quit. Can the present landlord, or a purchaser of the premises, evict "Quassia"; or, can the rent be further increased? The landlord does not require the premises for the occupation of himself or of any of his children. [In the circumstances stated, "Quassia" would not be ordered to give up possession of the premises upon the application of the present landlord. If a purchaser of the premises required them for his own occupation, or for his child, "Quassia" might be ordered by the Court to give up possession; but, probably, only if alternative accommodation were available. The rent cannot be further increased, assuming that "Quassia" pays the rates and no structural alterations of the premises have been carried out.]

A. M. S. (30/9) occupies a lock-up shop. The upper part of the premises is let to an old lady who resides there and also conducts a registry office for domestic servants. The lady has carried on the business for some years and insists upon keeping the side-door open for her visitors during the daytime. This makes it very cold for "A. M. S." in cold weather, and his assistant, who is delicate, may be compelled to leave. Is the lady entitled to keep the door open? Also, as she carries on a business, is she entitled to the protection of the Increase of Rent Acts? The tenancy agreement says nothing about the side door. [We do not consider that "A. M. S." has any legal right to compel the lady to keep the door shut; but if he is himself entitled to use that door, he can, in our view, shut the door himself. As the lady resides on the premises she cannot be evicted or be required to pay a higher rent except in accordance with the provisions of the Increase of Rent Acts.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics.

The Commercial Compendium

The *C. & D.* Commercial Compendium is just the thing required to provide information of a kind which we should all know something about, but are generally very rusty on the exact details of: moreover, I do not think this information is to be obtained in any one book, certainly not those items which are particularly applicable to a pharmacist's business.—*Commercpend* (15/7).

The *C. & D.* Commercial Compendium promises to become an unrivalled work of reference for chemists. It is only now one begins to realise the research necessary to supply such a wealth of information as is gradually being unfolded. Armed with the complete series the chemist of the future will have his business training in compact form, and one cannot imagine a progressive business man who will not find it indispensable.—*L. H.* (22/9).

Situations on the Riviera

I note that assistants are wanted for positions in Monte Carlo for the season. In my opinion the least an English qualified chemist should accept is a guaranteed minimum of fifteen hundred francs per month, and an unqualified man a guaranteed minimum of one thousand francs a month; and, in both cases, it should be made plain that full return fare should be paid from London and half-return fare from the provinces to London. If an assistant engaged from the provinces finds it necessary to stop overnight in London, hotel expenses should also be met. These terms, I think, are reasonable. French chemists can well afford to pay them during the Riviera season.—"Had Some" (25/8).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

K. E. (14/9).—ORNAMENTING GLASS.—For the purpose you require brunswick black, which has an asphalt basis, is employed. To ensure permanency the glass is baked after the lettering or ornamentation has been placed upon it.

W. G. (11/9).—MILK FEVER REMEDY FOR COWS.—This remedy is, we think, a liq. ammon. aromat. or aqueous spt. ammon. aromat. coloured with a green matter, perhaps sap green. The strength would be amm. carb. 3ss., liq. ammon. fort. 3j., to a pint. If sap green does not answer, try euonymin or ext. cannab. indic. The dose for cattle would be 3ss.-3ij., for sheep 3ij.-3iv., in all cases diluted with water, brandy or whisky.

J. F. W. (16/9).—STOCK-TAKING STATISTICS.—Assuming your figure covers the whole stock of drugs, sundries, proprietaries, etc., your problem is insoluble in the absence of published statistics. On the other hand, if it represents drugs and chemicals only, the *C. & D.* Drug Index will give a clue. In April 1921 the index was 212.8; 1922, 170.8; 1923, 155.1; 1924, 160.3; which gives the following relative values: 1921, 638; 1922, 512; 1923, 465; 1924, 481, and the approximate values would be, assuming 1921 as £907: 1922, £727; 1923, £661; 1924, £684.

W. A. H. (16/9).—PHARMACEUTICAL PRELIMINARY EXAMINATION.—All certificates on the accepted list of the Pharmaceutical Society include mathematics. If this subject was not taken, or a failure registered, it will be necessary to pass in it at an equivalent examination and present both certificates for acceptance; that is, the one minus mathematics and the one covering this subject.

H. J. (16/9).—CERIUM LACTATE was proposed as a suitable salt of cerium for medicinal use by the late Mr. J. B. Mackay. It was prepared by the action of lactic acid on the hydrated oxide of cerium, which in its turn was made by igniting the oxalate to convert it into oxide, dissolving in nitric or sulphuric acid and precipitating by means of potassium or sodium hydrate. Cerium salts were used in place of bismuth in allaying vomiting.

H. K. W. (16/9).—EMBROIDERY PATTERNS.—The process for multiplying the pattern of embroidery by spraying the colour through a stencil seems to require a spirit soluble aniline dye. This would dry quickly and the solution would probably be improved by the addition of a little resin to act as a fixer. A suitable blue dye is spirit induline, which is insoluble in water but soluble in spirit.

J. D. (16/9).—WORMS ON BOWLING GREENS.—The following is the method of destroying these: The grass is sprinkled with water containing lime water or to every 10 gallons of water is added a teacupful of a solution made by dissolving mercury perchloride 1 lb. in hydrochloric acid 22 oz., and water to make one gallon.

X. V. (17/9).—FORCING GROWTH OF MOUSTACHE.—A mixture of tr. capsici, tr. nuc. vom., and tr. canthar., diluted with lin. saponis, applied to the upper lip each night by means of a tooth-brush, is used for the purpose, but we cannot tell whether the treatment is successful. If a reddening of the lip is caused that persists during the day, the application is stopped for a time.

W. B. (18/9).—STOCK-TAKING INDEX.—It is not an unusual thing to take stock every other year, though, of course, the result can only be approximate, and possibly mislead. The sales and purchases being known, you should compare the latter with those of the previous year, as this will show you whether you can classify them on much the same basis, which is a material factor. The sales would be taken as they stand, unless some method of sorting out is adopted in daily business. There will be the necessity in the case of drugs to allow for a slight depreciation in values, as the index in September 1923 was 157.2, and the

present one is 156.2, which allows a deduction of 3/5 per cent. From the figures thus available and knowledge of outstanding accounts you should be able to estimate within about 5 per cent. error.

C. F. P. (17/9).—ASSISTANTS' SALARIES.—The scale of remuneration for unqualified assistants 30 to 40 years of age in London varies from 65s. to 95s., or even a higher sum, but this advance upon average rates depends upon personal knowledge of the assistant's ability. The rates for the larger cities appears from the only information available to be an average of 5s. to 10s. a week less. Country districts are lower than the rates specified above.

J. G. (17/9).—BOOKS ON CATTLE MEDICINE.—Armitage's "Cattle Doctor," 21s.; Barton's "Everyday Ailments and Accidents of Cattle"; Harper's "Manual of Farm Animals," 8s. 6d.; Moussu & Dollar's "Diseases of Cattle, Sheep, etc.," 25s.

H. T. (19/9).—CHEMICAL TRICK.—On pouring a weak solution of starch into a weak solution of iodine acidulated with sulphuric acid a black liquid is produced. Then on pouring into this a red liquid, composed of 10 per cent. sodium sulphite solution, 5 c.c.; strong ammonia solution, 10 drops; phenolphthalein solution, a sufficiency, and water to make 100 c.c., a clear solution results.

C. K. (19/9).—“LIQUID GLASS” is the name given to the old linseed oil and vinegar furniture polish containing a little putty powder. The quantities we suggest are:—

Linseed oil	...	...	...	20 oz.
Vinegar	...	...	...	10 oz.
Spirit of salt	...	...	...	4 oz.
Amyl acetate	...	...	...	3j.
Putty powder	...	...	...	3j.

Mix.

Directions: Shake the bottle and apply the polish with a wad of soft linen with gentle friction; finish off with a soft duster.

R. & Co. (20/9).—SEPARATING COTTON AND WOOL.—Schweitzer's reagent dissolves cotton, silk and linen in mixtures of these fibres with wool. It is made as follows: Dissolve 10 grams of copper sulphate in 100 c.c. of water and add 5 grams of potassium hydrate dissolved in 100 c.c. of water. The precipitate is collected, washed with water, and pressed dry, then macerated with constant shaking for a day with 20 grams of 20 per cent. ammonia solution.

Boiling wool and cotton with liq. potassæ dissolves the wool and leaves the cotton in skeleton form.

E. W. S. (20/9).—It is intended to publish "Pharmaceutical Botany" in book form. We hope to have it ready before the spring of 1925.

Retrospect of Fifty Years Ago

Reprinted from
“The Chemist and Druggist,” October 15, 1874

Opening of the Winter Session

The Provincial Associations have commenced their winter's work. Bristol offers the most tempting prospects to studio-^s young men. The western city is fortunate in the possession of several eminent pharmacists who have resolved to bring about a pharmaceutical millennium, and who, with characteristic energy, have chosen their own neighbourhood for the practical exemplification of their theories. At Leicester and Northampton the assistants have for some years past carried out most honourable efforts for mutual improvement, and both these associations show signs of continued vigour. The Halifax assistants, on the other hand, if we judge from our correspondence columns, seem hardly up to the same standard. At Liverpool the Chemists' Association is in the condition biometrically known as at sixes and sevens. Glasgow strives to make the best of both spheres, education and business, by means of classes and a published tariff. The chemists of Burnley have also associated, and have held a dinner to discuss their particular difficulties.



[Commenced C. & D., July 5, 1924]

Appropriated Stamps.—Term used to denote patent medicine stamps engraved with the name of the manufacturer of the medicine to which they are affixed. The manufacturer is required to pay the cost of engraving the plate (£8), payable to Thomas de la Rue & Co., Ltd. The stamps are supplied by the Stamp Office, Somerset House, London, in quantities of not less than £10 worth at one time.

Apricot Kernels are the kernels of the apricot fruit, which grows more or less wild in many districts of North China. The fruit itself is uneatable, and consequently it is not profitable to cultivate the apricot trees in regular orchards for the kernels alone. In cases, however, many varieties of the tree have been grafted on to wild peach, but this care having been exercised they are left to grow wild. Chinese apricots are much smaller than those grown in other countries. The finest sweet apricot kernels come from Shantung from districts around Yenching and Wanping. From there, when they have been prepared, they are generally sent to Tientsin, whence they are exported. The bitter apricots are grown mostly in Chihli, Honan, and Shantung. Although Tientsin is the regular port of export for both kinds, it is usual for apricot kernels to find their way to the Shanghai market and to be exported from there. The fruit ripens in June, and the process of preparation takes from one month to two months, depending on the state of the weather. The fruit is gathered and left to dry in the sun for a lengthy period, after which the kernels are cleaned. Subsequently the kernels are delivered to the various collecting centres, where the dealers buy up the small deliveries, clean the kernels again, and pack them in gunny bags ready to sell for export. The chief market being France, apricot kernels are generally sold c.i.f., or c. and f. per 100 kilos. In the United Kingdom they are sold c.i.f. or c. and f. per cwt., and in America per 100 lb. They are generally sold on "fair average quality" basis, net delivered weight. The fruit ripening in June, and the preparation taking from one to two months, the export season begins in August. The kernels are packed in gunny bags of about 160 lb. weight. Sometimes, however, sweet apricot kernels are packed in tin-lined boxes containing 28 lb. net. The kernels are used often to take the place of almonds, being both edible and also containing a fair percentage of oil, which is frequently substituted for genuine almond oil. They are used in baking and confectionery trades and are sometimes salted. Bitter apricot kernels are used almost entirely in the manufacture of liqueurs, especially what is known as Eau de Noyaux.

Araroba, or Goa Powder, is a powdery product obtained from cavities in the trunk of *Andira araroba*, caused by degeneration of the woody tissues. Trees of full size (80 to 100 ft. high and about 3 ft. in diameter) are felled and split to open up the central cavities. The liquid present is allowed to drain away and the damp pulp scraped away, dried, and powdered to form the araroba of commerce. The yield is up to 65 lb. per tree, but there may be no cavities at all. Crude araroba varies in colour from dark brown to yellowish brown. Chrysarobin, or "chrysophanic acid," is obtained by extraction of dried crude araroba with hot benzene, and the commercial araroba should yield at least 50 per cent. (and may be 75 per cent.) of such purified araroba or chrysarobin. The state of Bahia in Brazil sends the whole of the supply of araroba, some 10,000 lb. being shipped to Europe just previously to the outbreak of war in 1914. The present demand is comparatively small. "Chrysophanic acid" is still commonly used in skin

affections, but the tendency is to replace it with cleaner synthetic antiseptics.

Arbitrations.—Persons who are of full legal capacity may agree that some difference or dispute between them shall be referred for settlement to one or more persons called arbitrators. If the matter is of less value than £5, the submission need not be stamped, otherwise it must bear a 6d. agreement stamp. If no number of arbitrators is expressly fixed, the arbitration is understood to be by one arbitrator. If two are named, they have power to appoint an umpire. If either of the parties makes default in appointing his arbitrator the other may, after giving notice, appoint his arbitrator, who can then act as sole arbitrator. An arbitrator or umpire is not allowed to delegate his powers. An agreement to arbitrate does not oust the jurisdiction of the Courts; but if, after having agreed in writing to arbitrate, one of the parties starts an action, the Court will order the action to be stayed. When an arbitrator is appointed under the submission, he appoints the time and place of meeting and gives notice thereof to the parties. He cannot hear one party in the absence of, and without notice to, the other party. But if, after a reasonable time and place of meeting have been fixed and notice given to each, one of the parties refuses to attend, the arbitrator may proceed in his absence. If the submission does not otherwise provide, the arbitration is to follow the same lines as a trial in Court. The arbitrator has power to require the parties to produce to him all books and documents in their possession dealing with the matter in dispute. The award has to be made within three months, unless the submission otherwise provides or the time is enlarged by agreement. Where the submission has been in writing and it is not otherwise provided, the award must also be in writing. It must be a final decision dealing with all the matters referred to arbitration, and is required to be stamped with a 10s. stamp. Every award when made is enforceable by action in the Courts, and if it has been made on a written submission, it may by leave of the Court be enforced just as if it were a judgment or order of the Court. After an award has been made the Court may set it aside on the ground of some misconduct on the part of the arbitrator in conducting it on the ground that the award is uncertain and not final, or that it contains some error of law on the face of it. The arbitrator is entitled to be paid, and the practice is to hand over the award only on receiving payment of his fees. In addition to references to arbitrations by agreement of the parties, the Court sometimes refers matters to arbitration. In such a case, unless the Court otherwise orders, the arbitrator must sit continuously day after day, like a jury, until the arbitration is completed. Modern statutes, such as the Public Health Act, 1875, the Acquisition of Land Assessment of Compensation Act, 1919, and others, provide for matters in dispute arising under the Acts being referred to arbitration. The procedure in such cases is usually provided for expressly by orders made under the Acts.

Areca Catechu.—See Catechu.

Areca Nuts are the seeds of *Areca catechu*, a palm cultivated in all the tropical parts of Asia, the chewing of betel (or areca) nuts being a regular habit among natives of India. The seeds, which are also known as Penang nuts, are about the size of a nutmeg (being about one inch long), but are readily distinguished by their hardness, conical shape, flat base, and absence of odour. Internally they are mottled (like nutmegs), but the taste is astringent and somewhat bitter. One cwt. of commercial areca nuts will average between 10,000 to 12,000 seeds. Bombay is one of the collecting centres for areca nuts from Madras, Singapore, Penang, and Ceylon, the annual production ranging from 10,000 to 20,000 tons from either Ceylon or the Malay Archipelago. The demand in the United Kingdom is diminishing, but it is used as a vermifuge for dogs (in powder form or proprietary extracts), and to a lesser extent as an ingredient in tooth pastes.

Argentine, Pharmacy in.—The exercise of pharmacy in the Argentine is based on a law promulgated in 1877.



The C&D Commercial Compendium



To open or acquire a pharmacy it is necessary to possess a qualification granted by one of the Argentine national universities. Foreign qualifications are also accepted provided they are approved by the board of an Argentine university. The sale of all substances possessing medicinal properties is limited exclusively to pharmacies. Company pharmacy is illegal. New pharmaceutical legislation is under consideration. The official standard is the National Argentine Pharmacopoeia, the second edition of which was issued in 1923 (*C. & D.*, June 28, 1924, p. 955). The regulations for the importation and sale of pharmaceutical specialities stipulate that no foreign preparations of this class may be imported or sold unless approved by the Board of Health of Buenos Aires. Application for registration must be made on a special form obtainable from that department, in Spanish, giving a full disclosure of the formula, including inert admixtures, colouring matter, etc., the amount of each ingredient to be stated in the metric system. At the same time specimens of the labels, wrappers, prospectuses, advertisements and other printed matter relating to the preparation have to be submitted, each specimen being signed by the applicant. The application must be accompanied by five original packages, and by a certified statement issued by an Argentine consul to the effect that the manufacturer in the country of origin is a qualified pharmacist. In advertisements relating to pharmaceutical specialities it is forbidden to make any misleading statements as to their therapeutic value, action or properties. The formula must also be disclosed on the label and wrapper, in Spanish, giving the amounts in the metric system. Medicinal specialities, toilet preparations, perfumes and perfumed soaps are liable to stamp duty (*C. & D.*, May 31, 1924, p. 756).

Argol is the name given to the impure bitartrate of potassium, which is deposited from wine on the side of the casks after it has been kept for several years. The bitartrate of potassium is not formed during the keeping of the wine, but exists in the grape-juice in a state of solution before fermentation; owing, however, to its insolubility in dilute alcohol, it becomes deposited on the sides of the casks after this is produced. The precipitation is about one millimetre (less than four one-hundredths of an inch) per annum. These crystals contain from 40 to 70 per cent. crude cream of tartar, and is the commercial source of tartaric acid and purified cream of tartar. Sometimes the scraping of the casks is deferred until two or three years' precipitation has accumulated. In years when the price of wine is low the growers scrape the casks in order to supplement their income by the sale of argol, and accordingly in such years as much as 12,000 tons may be offered; in years when the price of wine is such that growers do not feel the need of funds they are apt to leave their casks unscraped, and the offering of argol may be as low as 8,000 tons. The higher the alcoholic content of wine the lower is the precipitation of argol, so that the ordinary red wines with nine degrees of alcohol give more tartar than the high-grade wines with twelve to twenty degrees of alcohol. Southern and South-Western France, Algeria, Spain and Italy are the largest producers, an average production being 10,000 to 12,000 tons per annum. Of the output the United States takes on an average 5,200 tons, England 2,000, France 2,000, and Germany 800 tons. There are several kinds found in commerce; white argol is deposited from white wine and is of a pale-pink colour, while red argol from red wine is dark red, and it is sold in casks or bags on its percentage of potassium bitartrate by analysis. In addition to the argol, there are available each year in the South of France and Algeria some 15,000 tons of wine lees taken from the bottom of wine casks, containing from 18 to 20 per cent. of cream of tartar. See also Wine Lees.

Arithmetic.—See Calculations.

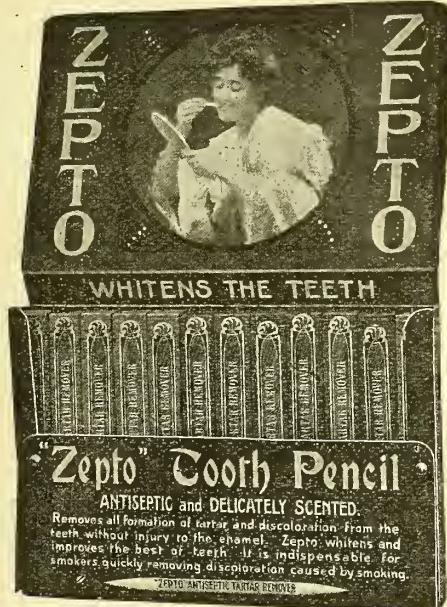
Armorial Bearings.—Every person who wears or uses armorial bearings is required to take out a licence annually. The fee for the licence is £2 2s. if the armorial bearings are used on a carriage, and £1 1s. if they are used or worn in other ways only. The penalty for neglect to take out a licence is a fine not exceeding £20. A licence is not needed by any person in trade for armorial bearings or devices in the nature of armorial bearings used in connection with matters merely relating to his trade—as on billheads and labels, or on the shop-front; but this concession does not extend to any trader who uses such devices on paper for general correspondence or otherwise than in connection with his trade. It was decided by the High Court in 1912 that a member of an incorporated society must take out a licence if he uses the arms of the society on his letter paper.

Arms, Royal, Use of.—Licences to use the Royal Arms are granted by the Crown, and lists of traders who hold the Royal warrant are published annually in "The London Gazette." If any person, without authority, uses the Royal Arms—or arms so nearly resembling them as to be calculated to deceive—in connection with any business, trade, calling or profession, in such manner as to be calculated to lead to the belief that he is authorised to do so, he is liable to a fine not exceeding £20. Under the Trade Marks Act, 1905, if any person uses the Royal Arms, or a deceptive imitation, in such a way as to lead to the belief that he is employed by or supplies goods to members of the Royal Family, he may, at the suit of any person who is authorised to use the Arms, or is authorised by the Lord Chamberlain to take proceedings, be restrained by injunction from continuing to use the Arms. Trade-marks which incorporate the Royal Arms will not be registered unless the marks were in use before 1875. Any wrongful use of the Royal Arms is usually followed by prompt action on the part of the Royal Warrant Holders' Association.

Army Compounders (Dispensers).—See Dispensers.

Army Dispensers.—See Dispensers, Army.

Arrest is the actual seizure or touching of a person's body with a view to his detention. In certain circumstances a person may be arrested without the authority of a warrant. Thus, by common law, if a felony has actually been committed or attempted, anybody may arrest a person whom there is reasonable cause for suspecting of being guilty of the offence. Also, anybody may arrest without warrant a person whom he sees on the point of committing a felony or a person who, in his presence, commits, or is about to commit, a breach of the peace. The police possess certain additional powers of arrest without a warrant; for instance, they may arrest upon mere suspicion of a felony having been committed. Moreover, a number of statutes authorise arrest without a warrant. Upon a written and sworn information that an indictable offence has been, or is suspected to have been, committed within the limits of his jurisdiction, any justice of the peace may issue a warrant for the arrest of the guilty or suspected person within the area of his jurisdiction. Similarly, a justice may issue a warrant for the arrest within his jurisdiction of a person who has, or is supposed to have, perpetrated an offence in another district. If an offender against whom a warrant has been issued within the jurisdiction of one justice escapes from that district, the warrant may be made effective in the place where he is by endorsement by a justice having jurisdiction there. This is known as "backing a warrant." Arrest upon a warrant may be effected in any place and at any time. In executing a warrant, the police may use reasonable force and may break open doors after being refused admittance. In certain circumstances persons may be arrested on civil process by direction of a judge; for example, for non-compliance with a judgment or order or for other forms of "contempt of Court" (q.v.).



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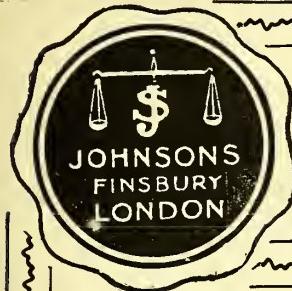
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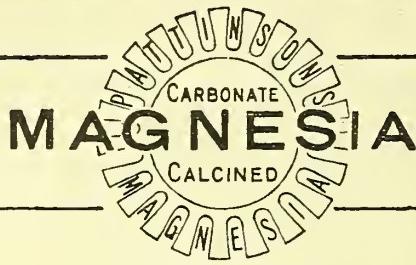
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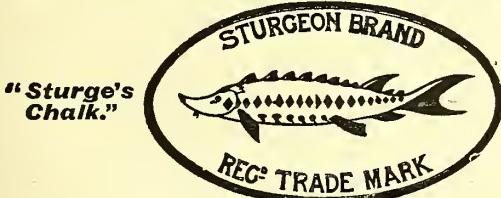
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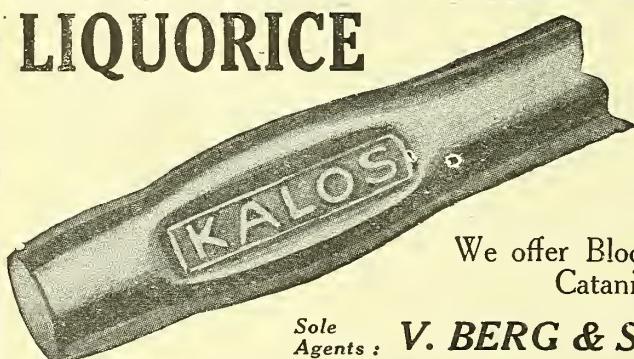
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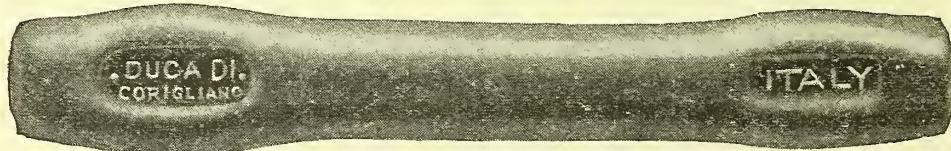
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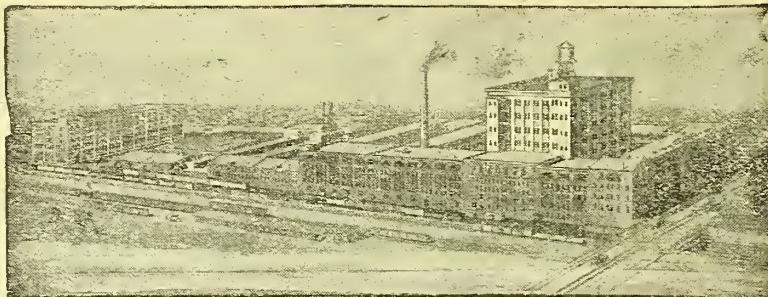
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A Colloidal Iron Concentrate containing 5% pure Iron. A tea-spoonful 3 times a day is the equivalent of 30 Blaud's Pills.

KATHIOLAN

The 24-hour treatment for Scabies. We invite Chemists to write for literature on above.

CHAS. ZIMMERMANN & CO. (Chem.) Ltd. Med. Dept.
9-10 ST. MARY-AT-HILL, LONDON, E.C.3

TAKE ADVANTAGE OF THE GROWING DEMAND for SPHAGNOL

Sphagnol—the world's greatest skin healer—is being widely advertised to the public, and chemists everywhere are experiencing a steady and growing demand for these wonderful preparations.

With Sphagnol, moreover, you get three distinct classes of trade. Each is a paying proposition in itself; together they form a remarkably profitable combination.

Sphagnol

SPHAGNOL MEDICAL PREPARATIONS
For all Skin Complaints

MEDICAL SOAP
OINTMENT
LOTION
SUPPOSITORIES, &c.

VETERINARY PREPARATIONS SOAP OINTMENT
Send to-day for free samples and full particulars of these quick selling lines and get your share of the business they are creating.

PEAT PRODUCTS (SPHAGNOL) Ltd.
(Dept. B11) 18 19 QUEENHITHE, LONDON, E.C.4

The Sal Hepatica advertising campaign is now in full swing.

Watch for this full page
Sal Hepatica advertisement
on the back page of the

Daily Express, October 17,
1924. Bristol-Myers Co.,
112 Cheapside, London, E.C.2

Sal Hepatica

Confellax

For Constipation

This delicate laxative has an attractive appearance and agreeable taste and is particularly suitable for children and invalids.

REVISED PRICES (P.A.T.A.)

	Retail	Wholesale	
IN JARS	1/6	12/- doz.	£3 Orders Carriage Paid.
	2/3	18/- ,,	Handsome Showcards.
	3/6	28/- ,,	

Free Samples for your local doctors and nurses.

EVANS, GADD & CO. Ltd., BRISTOL & EXETER
Wholesale and Manufacturing Chemists

COMPRESSED TABLETS

PACKED OR BULK. SUPERIOR QUALITY. KEEN PRICES.

We are Experts with 20 years' practical experience.

Customers' own materials and specialities made up to formula.

BUCKLEY-BOWKER TABLET CO., Manufacturing and Consulting Chemists,
J. F. BUCKLEY } from Burroughs Wellcome & Co.
C. W. E. BOWKER } and Allen & Hanburys, Ltd.
CLARENCE HOUSE SHOWROOMS,
4-8 Arthur St., King William St., LONDON, E.C.4

BESORBON

(Dr. Hill's Formula)

MEDICINAL SNUFF. ABSOLUTELY THE
FINEST REMEDY FOR CATARRH & COLD
IN THE HEAD.

Richard Dickeson & Co. (Incorporated with Reynolds, Sons & Co., Ltd.)
57-59 CHARTERHOUSE STREET, LONDON, E.C.1.

BEECHAM'S PILLS

WHOLESALE PRICES.

BEECHAM'S PILLS:

1s. 3d. size	...	...	10s. 6d. per doz. net.
3s. 0d. ,,	...	...	26s. 6d. ,,"
5s. 0d. { new size	...	...	50s. 0d. ,,"

contains double the quantity of 3s. box

Minimum quantity £5 value.

Packages Free.

BEECHAM'S COUGH PILLS:

1s. 3d. size	...	...	10s. 6d. per doz. net.
3s. 0d. ,,	...	...	26s. 6d. ,,"

Carriage Paid.

Cash with Order.

Cheques to be made payable to THOMAS BEECHAM, and crossed "Westminster Bank, Ltd., St. Helens."

ARE YOU GETTING YOUR SHARE OF THE DEMAND CREATED BY THESE ADVERTISEMENTS?

Day by day and week by week in the leading London and provincial newspapers the demand is created for these three well-proven specialities.

Have ample stocks ready for the winter months by ordering now from your usual Wholesale House or direct from the manufacturers.

POTTER'S ASTHMA CURE P.A.T.A. 1/6 - 14/- doz.

POTTER'S CATARRH PASTILLES P.A.T.A. 1/3 - 10/- doz.

Dr. BUCHANAN'S SKIN-CLEAR P.A.T.A. 1/3 - 10/- doz.

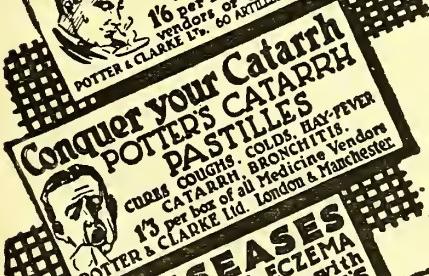
POTTER & CLARKE, LTD.

DRUG MERCHANTS AND MANUFACTURING CHEMISTS

60, 62 & 64 ARTILLERY LANE, LONDON, E.1

BRANCH OFFICE:

24 LUNA STREET,
GREAT ANCOATS,
MANCHESTER.



We welcome your enquiries for PACKED WINTER SPECIALITIES

EXTRACT OF MALT & COD LIVER OIL

We are in a position to quote specially low prices for winter's contract—packed or in bulk.

CREAM EMULSION of Cod Liver Oil with Hypophosphites

A perfect Emulsion. Palatable and Creamy.

WHITE PINE COUGH SYRUP

One of the most effective cough cures on the market—very attractively packed.

B.P. LINIMENT

For Lumbago, Rheumatism, Sciatica, etc. Will ensure many grateful customers.

"MOLIVENE"

Extract of Malt and Olive Oil—sells all the year round. Ever increasing Sales.

LET US QUOTE YOU FOR ANY AND EVERY WINTER REQUIREMENT

Sample cheerfully mailed. Send for Illustrated Catalogue.

ROBERT BLACKIE,

SHEN WORKS, TOWER BRIDGE ROAD, S.E.1



BAISS BROTHERS & Co. Ltd.

Established 1833

GRANGE WORKS, LONDON, S.E.1

Wholesale and Export Druggists, Manufacturing Chemists and Druggists' Sundriesmen.

Telephone : Hop. 4362 (3 lines).

Telegrams : "Ipecac, London."

PREPARE FOR YOUR WINTER TRADE
AND NEVER BE OUT OF STOCK OF

The "WORLD WIDE" EMBROCATION

THERE IS NOTHING BETTER ON THE MARKET.

It is tastefully packed in Red Cartons with attractive Label, and is always a good seller.

3 oz. 7/6 doz.

6 oz. 10/6 doz.

Customer's own Name, etc., printed on all Labels and Cartons.

DELIVERIES BY OWN MOTOR SERVICE IN THE HOME COUNTIES, INCLUDING COAST TOWNS.



PROFITABLE

AUTUMN and Winter bring a growing demand for Snowfire Cream, the purest, non-greasy face-cream, which maintains the soft beauty of a clear complexion and protects the skin from weather vagaries. Extensive and well placed Advertising is increasing the already considerable demand for Snowfire Cream. Make sure you have a good stock to meet new business.

Snowfire CREAM

Allows you a handsome profit. It is hermetically sealed in an aluminium screw top container to keep the cream in perfect condition

Retail Price - - 3d.

Also in attractive jars
at 1/3.

Terms and particulars from
F. W. HAMPSHIRE
& CO., Ltd.,
Riverside Works, Derby.



IN BIG CurAcho DEMAND

(CURE-ACHE-O)

THE OIL-LESS EMBROCATION

C. Finlon Walker
TRADE MARK.

A unique preparation of proved efficacy. Pleasant to use. Does not stick or clog the skin.

Used and recommended by

Doctors, Nurses, LEADING ATHLETES and SPORTSMEN, including British Olympic Team; Oxford and Cambridge Boat Crews; Household Brigade Champions, etc.

CurAcho is the British-made Embrocation which customers buy, and keep on buying, because it acts up to expectations.

For over 15 years CurAcho has enjoyed a rapidly

For Rheumatism, Gout, Neuritis, Sciatica, Lumbago, Neuralgia, Chills, Chest Colds, Chil-blains, Aching Feet, Sprains, Cramp, Bruises, and all forms of Muscular Stiffness.

increasing sale and gained a remarkable public and professional following.

Chemists everywhere are enhancing their profits and reputations by recommending CurAcho. You can sell it with absolute confidence.

NOW BEING EXTENSIVELY ADVERTISED.

Effective Display Stand in 8 colours supplied free on request.

PRICES—Human	-	1/9 size, 16/10 per dozen;
	3/-	" 28/10 "
Veterinary	-	1/6 size, 14/6 per dozen;
	2/6	" 24/- "

ON P.A.T.A. LIST FOR FIFTEEN YEARS.

CurAcho (1924) Ltd. Lydbrook, Gloucestershire. London Dept.: Cambridge Rd., Kew.

It will pay you to stock them!

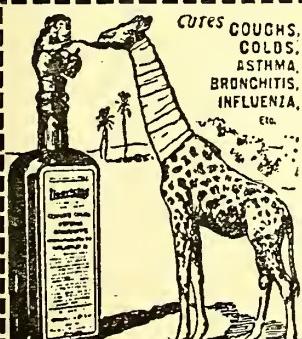
When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow.

IGLODINE is fast becoming a household word, and the public, through satisfaction which comes after trial, are demanding IGLODINE PREPARATIONS. Are you the retailer who is preparing to meet the demand?

Iglodine

Write to-day for full particulars to :

THE IGLODINE CO., LTD. - Newcastle-on-Tyne. 1



"No case too bad!"

HOOOPER & CO.

HOT WATER BOTTLES.
CHEMISTS' SUNDRIES.
SURGICAL RUBBER GOODS.
HIRE DEPARTMENT.

26 Charlotte St., London, W.1.

TELE^{phone} MUSEUM 2151 (4 lines),
grams "Superabundant, Wesdo, London."

Licoricine
ACTS LIKE MAGIC

For Coughs, Colds, Asthma, Bronchitis, Influenza, Whooping Cough, &c.

10½d. size	-	-	-	8/6	per doz. net.
1/3 "	-	-	-	12/-	" "
3/- "	-	-	-	27/-	" "

£2 worth Carriage paid. £6 worth and upwards, subject to 5% discount. Minimum Retail Prices, 10½d., 1/3 & 3/-, N.B.—This allows the Chemist a profit of nearly 33%, or 4d. in the 1/- on £6 lots.

MANDALL & CO. LTD., 17/23 STEPNEY ROAD,
NEWCASTLE-ON-TYNE.

Specialisation Reduces Costs

The tendency of manufacturers is to confine their attention to the work on which they are most successful. Partly by intention and partly by chance they eliminate the work that does not suit them. And so, eventually, they become specialists.

We are successful specialists on long runs for labels and wrappers.

Our work is good and our prices save you money ; to specialise is to reduce costs.

*Write
Dept. C.*

A quotation only costs you the trouble of sending an enquiry.

The Berkshire Printing Co. Ltd.
King's Road, Reading.

TO THE RETAIL CHEMISTS and DRUGGISTS of GREAT BRITAIN

FOR some time past the "Wampole" Brand Specialities have been regularly detailed and sampled to the Medical Profession of Great Britain with the result that the demand has increased greatly and is steadily growing. All chemists should have these well-known preparations on hand in order to be able to fill promptly physicians' prescriptions.

The leading wholesale druggists of England are carrying a full stock of our preparations, and can therefore fill orders promptly from retail chemists at the following prices :

	Per Dozen	Suggested Price to Consumer
Cod Liver Preparation, 16 oz. stamped	76/-	8/-
Cod Liver Preparation, 8 oz. stamped	42/6	4/6
Phospho-Lecithin, 16 oz. unstamped ..	70/6	8/-
Phospho-Lecithin, 8 oz. unstamped ..	38/6	4/6
Creo-Terpin, 16 oz. unstamped	80/-	9/-
Creo-Terpin, 8 oz. unstamped.....	43/-	5/-
Magma Magnesia, 16 oz. unstamped ..	26/6	3/-

MADE IN CANADA BY
HENRY K. WAMPOLE & CO., LTD.
Manufacturing Pharmacists,
PERTH, ONTARIO, CANADA.

British Distributors :—
FRANCIS NEWBERRY & SONS, LTD.,
LONDON, E.C.1.

ERGOAPIOL (Smith) PROTECTIVE MARK

Patented in U.S. and Foreign Countries.

Ergoapiol (Smith) is now identified by the letters M.H.S. in the gelatin on the inside of each capsule. These letters are not visible from the outside, but they are plainly discernible in the gelatin when the capsule is cut in half.

MARTIN H. SMITH CO. NEW YORK, N.Y.

British Agents—
THOS. CHRISTY & CO., 4-12 Old Swan Lane, London, E.C.4.

OPIUM

Natural and in Powder.

J. TARANTO & FILS, SMYRNA
ESTABLISHED 1868. (Turkey in Asia)

Telegraphic Address : AFION, SMYRNA.
Codes : A.B.C. 5th and 6th Editions. BENTLEY'S.

Correspondence :
English, French, German, Italian, Spanish, etc.

Sasso

Olive Oil



Preferred throughout the world.

P. SASSO e FIGLI ONEGLIA, ITALY.

The Largest Olive Oil Factory in Italy.

Packed in Tins, Cases and Barrels.

**GRAND PRIX, GENOA 1914: SAN FRANCISCO 1915.
RIO DE JANEIRO 1923.**

WHOLESALE ONLY.

Fredk. Boehm Ltd

15, 16, 17, JEWRY STREET, LONDON, E.C. 3.

Telephone: AVENUE 1365 (3 lines). Telegrams: "BISSULA, TELEW, LONDON." Telewriter: WALBROOK 506.

140 WEST GEORGE STREET, GLASGOW.

Petroleum Jelly

**White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes**

MEADE-KING, ROBINSON & CO., LTD.
LIVERPOOL - LONDON - MANCHESTER - LEEDS.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.
Carnwath Road, Fulham, London, S.W.6.

Telephone : Putney 42. WHO INVITE ENQUIRIES. Telegrams : "Batapo, Walgreen, London."

PETROLEUM JELLY.

Gough, Kidston & Co.

Chemical Manufacturers,

Tanning & Dyewood Materials & Extracts,

Gum & Wax Merchants,

Tel. No. :
Royal 2666 and 2667.

Tel. Add.
"Kidstonism,
Bilgate, London."

43/45 Gt. Tower Street, London, E.C. 3

WORKS.
BERMONDSEY.
Tel. No. : Hop 2029.

**THE STANDARD
OF PURITY
STERNS
LIQUID
PARAFFIN B.P.**

Colourless, Tasteless, Odourless.
All Specific Gravities.

**PETROLEUM
JELLIES B.P.**

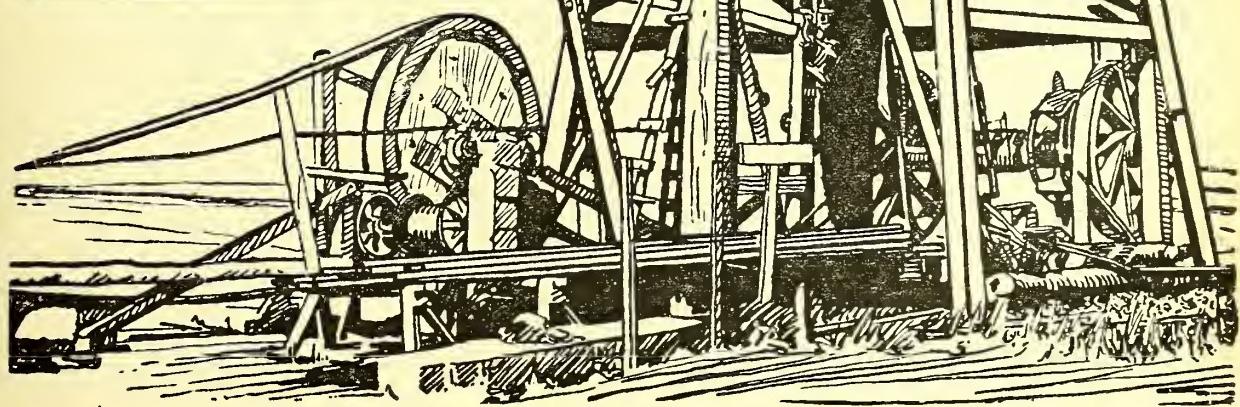
White, Lemon, Yellow, Amber,
Red, Green.

**WHITE AND
COLOURED OILS**

Yellow, Green, Red for
Brilliantine, etc.

Wholesale and Export only.

STERNS LTD.
80 ROYAL LONDON HOUSE,
FINSBURY SQUARE, E.C.
19 WATERLOO ST., GLASGOW.



GENUINE RUSSIAN LIQUID PARAFFIN

ALL GRAVITIES, HIGHEST VISCOSITIES.

"JASMINE BRAND" PETROLEUM JELLIES

WHITE AND AMBER.

B.P.
1914FINEST
QUALITIES.
COMPETITIVE
PRICES.**"JASMINE BRAND" WHITE OILS** CHEM. PURE, WATER-WHITE,
TASTELESS, ODOURLESS.

FOR MANUFACTURING PURPOSES.

LUBRICATING OILS FOR ALL PURPOSES.**THE PURE RUSSIAN LIQUID PARAFFIN CO., LTD.**

3 ST. HELEN'S PLACE, LONDON, E.C. 3.

*Actual Refiners and Manufacturers at their works near London.***JACKSON'S PATENT
RAPID FUNNEL****COPPER, TINNED INSIDE.**

$\frac{1}{2}$ pint, 2/-; $\frac{1}{2}$ pint, 3/-; pint, 4/-; quart, 6/-;
 $\frac{1}{2}$ gall., 9/-; gall., 12/-; 2 gall., 16/-; 4 gall., 25/-.

JNO. P. JACKSON & CO., LTD.

ENGINEERS & COPPERSMITHS,
MAKERS OF BOTTLING, CORKING, FILTERING
AND TUBE FILLING MACHINES.

POWNALL SQUARE, LIVERPOOL.**SUTTON'S****CLOUDY AMMONIA**

To-day, as ever, the extra strength of
SUTTON'S CLOUDY AMMONIA

makes it the most efficient and the most economical for all purposes.

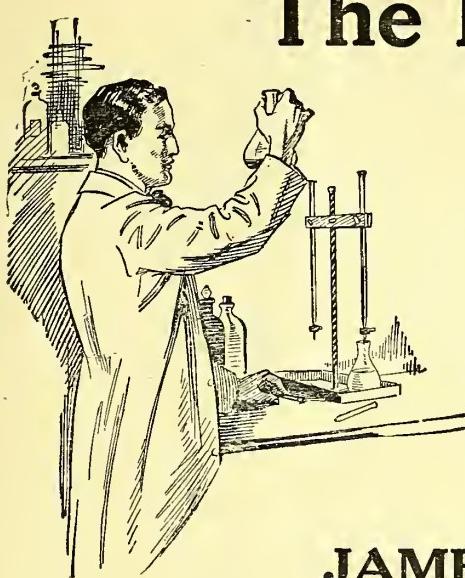
The enviable reputation of G.F.Sutton, Sons and Co. ensures that in handing out a "Sutton" product the retailer is giving his customer the very finest quality. Doesn't that mean "repeat" orders every time for YOU?



Sole Manufacturers:
G.F.SUTTON, SONS & CO.
Osborne Works, Brandon Rd.
King's Cross, LONDON, N.7

"A good name is more than riches."

The Highest Standard of Quality



We invite your enquiries for

PETROLEUM JELLY	REFINED COTTON OIL, EDIBLE	SPERM OIL
White		NEATSFOOT OIL
Yellow		OLIVE OIL
Red	ROSIN	WHITE OILS
CASTOR OIL	American	COD LIVER OIL
FINEST COLZA OIL	French	NUT OIL,
LINSEED OIL	TURPENTINE	FINEST
	Genuine American Spirits	Edible Arachide
	Substitute	LUBRICATING OILS of all descriptions

Wholesale only

JAMES ARNOTT & SONS, Ltd.

Send for Prices and Samples. Write us soon . . . To-day—Thank you!

HEAD OFFICE:

47 Pilgrim Street
NEWCASTLE-ON-TYNE



Russolax

REGISTERED TRADE MARK

Russian Medicinal Paraffin

Recommended by the most eminent Surgeons and Physicians for Chronic Intestinal Stasis (Chronic Constipation).

OBtainable at all Chemists and Stores in 10-oz. and 20-oz. Panel Bottles.

Sole Manufacturers:

Redgrave, Butler & Co., Ltd.

Liquid Paraffin Specialists,

FOREST LANE, STRATFORD, E.15

PETROLEUM JELLY
(**'SALVO PETROLIA'**)
BRAND

THE PERFECTION OF PETROLEUM JELLY
MANUFACTURED SOLELY BY

THE DEE OIL CO.

D 23 & 24 EXCHANGE BUILDINGS
LIVERPOOL

TELEPHONE—
CENTRAL 3859

TELEGRAMS—
'CESTRIAN'

LONDON OFFICE
49 LIME ST. EC3 PHONE AVENUE 2885
PACKED IN BARRELS, KEGS OR
SMALLER PACKAGES IF DESIRED.

OTHER GRADES OF
PETROLEUM JELLIES: WHITE BASES, ETC.
WHITE OILS: B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION

Oleum Deelinæ (DEE OIL)
THE UNFAILING CURE FOR ECZEMA

"A POINT FOR REFLECTION."

AT a recent conference of manufacturers a well-known Advertising Consultant made a statement, in the course of an address on "ADVERTISING A NEW PRODUCT," that the wrapper or carton came second in importance only to the article itself.

This is a truth we have been broadcasting for many years, and we were recently informed by one of our clients that a carton we had designed and printed had contributed more than any other factor to break down "DEALER RESISTANCE."

Write to-day for a consultation or submit your enquiries through the post.

ALF HARRISON & SONS, LTD.

CHEMISTS' PRINTERS,
Folding Box Manufacturers,
Advertising Matter of every
description.

224 BURLEY ROAD
LEEDS.

"GRAMS;
"IDEAS."

PHONE:
LEEDS 26674

S.V.M.

Stock Labels to use
with your present
kind to avoid liability
owing to the altered
constituents.

100 9d. 1,000 4/6



G.A.LEJEUNE 28A CHANDOS ST.
LEICESTER

*IT WILL PAY YOU
TO USE
"LEJEUNE"
SHOW CARDS*

BERNARD SLACK says:

If you are wishful to increase your retail business?

If you have financial or other business troubles?

If you wish to enlarge your business by forming a Limited Company?

Then write me. 36 years retail experience.
15 years Company Expert to the retail drug and other trades.

15, Christ Church Avenue, West Didsbury,
Manchester.

FIELD'S FOR CARTONS

BECAUSE

They create successful designs and produce quality printing by offset litho and letterpress processes. Their box making plant is replete with automatic machinery reducing handling costs to a minimum. In short, because they have reduced the manufacture of high-class cartons to a fine art.

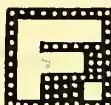
FIELD SONS & CO. LTD.

DESIGNERS, COLOUR PRINTERS AND

CARTON MAKERS

SOUTHGATE WORKS BRADFORD

LONDON
44 KING WILLIAM ST.
E.C.4.



LIVERPOOL
GLASGOW &
NEWCASTLE-ON-TYNE

CHESTNUTS

The
premier Chest
and
Lung Tablets

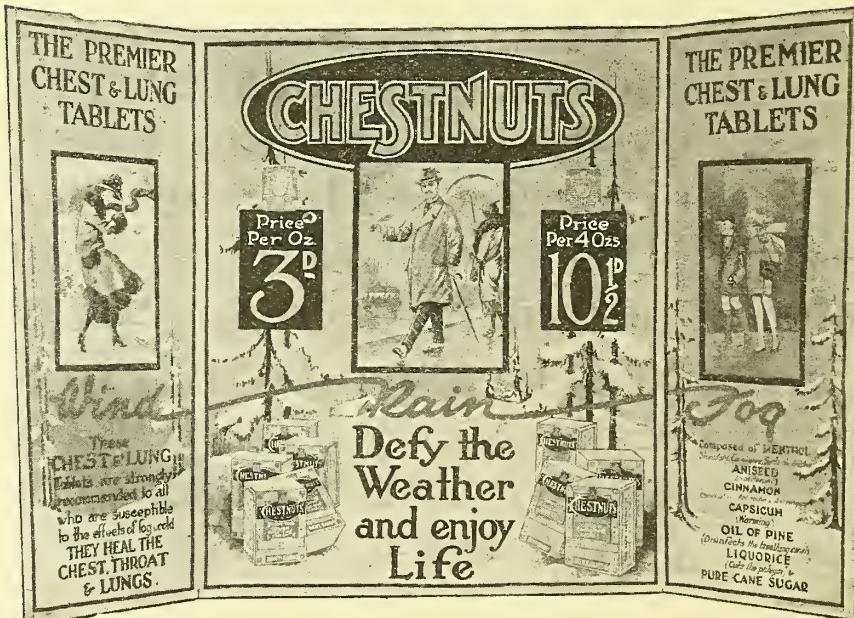
*Composed of Norwegian Pine, Oil of Peppermint,
Oil of Aniseed, Balsam of Tolu, Liquorice, etc., etc.*

Last season's sales trebled all past records, a striking testimony to the recognised efficacy of the tablets and the splendid show material supporting them.

This is the screen given with all orders for 28 lbs. The complete display accompanying hundred-weight consignments comprises two showcards, four window transparencies, six window discs, 350 2-oz. cartons, 50 4-oz. cartons and 400 envelopes.

PRICES:

14 lbs.	1/11 per lb
28 lbs.	1/10 "
56 lbs.	1/9 "
112 lbs.	1/8 "



Book your contract now and secure priority in delivery.

ARTHUR H COX & CO LTD
Manufacturing Chemists
BRIGHTON ENGLAND

Established 1839.



THE CHEMIST AND DRUGGIST



SUPPLEMENT

42 CANNON ST.
LONDON E.C.4

OCTOBER 11, 1924

This Supplement is inserted in every copy of The Chemist & Druggist.

THE CHEMIST AND DRUGGIST SUPPLEMENT

REVISED ADVERTISEMENT TARIFF.

BUSINESSES WANTED and for Disposal, Premises to Let, Goods for Sale, and Agencies—6/- for 50 words; every additional 10 words or less, 6d.

SITUATIONS OPEN—6/- for 40 words; every additional 10 words or less, 6d.

SITUATIONS WANTED—2/- for 18 words; every additional 10 words or less, 6d.

Legal Notices, Tenders, Auctions, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines = 1 inch single column).

MISCELLANEOUS ('Wholesalers') SECTION for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less.

EXCHANGE COLUMN (for Retailers, etc.)—Twopence per word, minimum 2/-.

BOX NUMBER.

In each case replies may be addressed to a registered number or nom-de-plume, c/o this Office, at a charge of 1/- extra for each advertisement.

PAYMENT.

All Advertisements are prepaid, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

THE CHEMIST AND DRUGGIST, 42 Cannon Street, LONDON, E.C.4.

Telephone: Central 3517 (3 lines).

ALL ADVERTISEMENTS INTENDED FOR INSERTION IN THIS SUPPLEMENT

MUST REACH US
NOT LATER THAN

FIRST POST THURSDAY MORNING.

CHEMISTS' TRANSFERS.

Messrs. Orridge & Co., 56 Ludgate Hill, E.C.

Telephone No.: CITY 2283.

May be consulted at their Offices on matters of Sale, Purchase and Valuations.

1.—SOUTH LONDON (Main Shopping Thoroughfare).—Very old-established Business, with Branch; returns average between £4,000 and £4,500, at full prices; under modern management the turnover can be large augmented; the investment offers scope for two young men desirous of entering into partnership; further details on application.

2.—FINSBURY PARK (Near).—General Retail Business, with N.H.I. Dispensing; returns, under management, £2,500 yearly; scope for increase under personal supervision; the house is sublet to cover more than the rent of the whole premises; price to be arranged.

3.—LONDON, S.E. (Main Road).—Cash Retail and Dispensing Business, situate in good-class locality; returns £25 weekly, steadily increasing, under management; double-fronted shop, well-fitted in mahogany and fully stocked; long lease; price £1,000.

4.—VICTORIA.—High-class Retail and Dispensing Business; very old-established; returns approach £3,500 per annum, with a net profit of about £700; the pharmacy is well fitted and fully stocked; good living accommodation, bath room; held on lease; price £2,500.

5.—FOREST HILL (Near).—Family Retail and Dispensing Business, with Kodak Agency; returns, £2,250; net profit, £700; large double-fronted shop, well fitted and stocked; good house and garden; held on lease at moderate rental; sub-let garden at £26 per annum; price £1,850.

6.—BRIXTON.—Cash Retail and Photographic Business, with N.H.I. Dispensing, which is rapidly increasing; returns, about £1,000, apart from N.H.I., at usual prices; vendor estimates value of stock at £300; held on lease; sub-let covers rent; no immediate opposition; ill-health cause of sale; price £650.

7.—LONDON.—Old-established Business, comprising Packed Proprietary articles stocked by Wholesale Sundry Houses; gross turnover, about £13,000; books kept by chartered accountant; terms, £2,000 for leases and goodwill; stock and plant by valuation; book debts optional.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Stock, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes confusion and loss.

8.—SOUTHERN COUNTY.—Retail and Dispensing Business, with Wine Licence and small Optical connection; returns, present rate, £2,000 per annum; attractive pharmacy, very well fitted; good working stock; comfortable house, garden; held on lease, or property may be purchased; further details on application.

9.—TYNESIDE.—Cash Retail Business, in good position; trams stop at door; returns, present rate, £1,400 per annum, at usual prices; double-fronted shop, with good working stock; rent £42 per annum; price £750.

10.—BRIGHTON.—General Retail Business, with N.H.I. Dispensing; returns exceed £1,000 per annum, at good prices; single-fronted shop, with good stock; lock-up pharmacy and basement; rent, £52 yearly inclusive; held on lease; price £750.

11.—SUSSEX.—Good-class Business, Retail, Dispensing, and Kodak Agency; very old-established; returns, about £3,250 per annum, with scope for considerable increase; good prices are obtained; attractive double-fronted shop, fitted in mahogany and heavily stocked; lock-up pharmacy, with room at rear and cellarage; held on lease; price to be arranged.

12.—MIDLANDS.—Old-established Business, situate in main thoroughfare and offering scope for large increase; returns approach £3,000 per annum, at good prices; large double-fronted shop, very well stocked; moderate rental; offers invited.

13.—LIVERPOOL (Near).—Ready-money Business, chiefly Family trade, with small Optical connection; returns, last year £1,685, gross profit, £550; stock and fixtures estimated at £875; rent £66; sublet 13s. weekly; price, to include goodwill, stock and fixtures, £1,000, or valuation terms if desired.

14.—MERIONETH.—General Retail and Dispensing Business, which has always been carried on under management; returns £1,000, with scope for considerable increase; double-fronted shop; rent, £25 per annum; 24 years' lease; small house; good opportunity for young Chemist commencing business, or one advancing in years. In order to effect a speedy transfer Vendor is willing to consider a reasonable offer.

Valuations for Stocktaking

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such service.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.4.

The Association of Mfg. Chemists

- LIMITED -

BUSINESS AGENCY TRANSFER AND VALUATION DEPARTMENT

**Head Offices—Kimberley House,
Holborn Viaduct, London, E.C.1**

(and at 2 Bixteth Street, Liverpool)

PARKIN S. BOOTH, Accountant and Valuer.

(TELEPHONE: CITY 1261-2-3.)

WANTED.

FROM 15-20 GOOD-CLASS RETAIL BUSINESSES, in prosperous localities, must bear strictest investigations; turnover not less than £5,000 p.a.

Vendor could acquire an interest in a Company which will control the multiple shops.

Send fullest information in confidence to this office.

BUSINESSES FOR DISPOSAL.

FOR IMMEDIATE DISPOSAL.

1.—LONDON, N.W.—Excellent General Retail and Dispensing Business in good locality. Turnover over £2,000 p.a. Kodak agency, N.H.I. Thirteen years' lease at £125 p.a., inclusive. Well fitted, lock-up shop. No great opposition—scope for development. Price £1,000 cash down, or £1,200 easy payment. (141)

2.—LONDON.—An exceptional opportunity to acquire four Shops doing an excellent trade in Chemists' Sundries, and situated in City and immediate vicinity. Good leases for three shops; one with agreement with two years to run. Turnover for last year for three shops, £6,029, £2,564, £2,466. Fullest particulars on application. (140)

3.—LONDON, N.W. (off Euston Road).—Old-established Cash Business, with N.H.I., in working-class district. Turnover £33 per week; rent, £84 p.a.; let off £49 p.a. Premises held on yearly agreement. Lock-up shop. Price, for quick sale, £650. (116)

4.—LONDON, W.—Good Dispensing Business; rent, £150, inclusive; 11 years' lease; lock-up shop; good scope under personal supervision; price £1,150, all at. (114)

5.—LONDON, S.W.—Cash Drug Stores; returns, £19 p.w.; rent, £70; let off at 7s. 6d. per week; 3 years' agreement, option of 7 years; good dwelling accommodation; excellent scope for energetic man; price £730. (101)

6.—KENT (County Town).—Very old-established Chemist and Optical Business; returns, £50 p.w., very profitable; well-fitted lock-up shop and sight-testing room, large hall at rear, cellars, etc.; lease could be granted, or freehold of excellent property, comprising 2 shops, with offices above, can be acquired; price for goodwill, fixtures, fittings and stock, £2,900; freehold property, £4,000. (138)

7.—DEVON.—Good-class ready-money Business, in important town; returns, £30 p.w.; Kodak, N.H.I., etc.; double-fronted shop, with 8-roomed house; price, including freehold property, £2,600. (134)

8.—S. COAST.—Manufacturing Chemist Business owning well-known proprietary line which makes a strong appeal to the public. Turnover 1922-23, £6,000; 1923-24, £7,000. Large factory premises could be purchased for £3,000, or 7 or 14 years' lease could be granted. Fuller particulars on application. (142)

9.—MIDLANDS.—Well-stocked General Retail, Dispensing and Photographic, in small country town; returns, £37 per week; rent, £40 p.a.; price £1,535, or offer. (108)

10.—MONMOUTH.—Old-established Business, in market town; returns, £35 p.w.; rent £50, rates £34; 7 years' lease, renewable; well stocked and fitted; Kodak and Optics; N.H.I.; price £1,250. (118)

STOCKTAKING.—Do you realize the importance of knowing the true value of your stock, and thus being able to arrive at a net working profit? We undertake this work for an inclusive fee at short notice. Write for terms.

BERDOE & FISH

WILLIAM S. FISH,

Valuers and Transfer Agents,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SOUTH COAST (Health Resort).—High-class Modern Pharmacy; recently established; splendid main road position; present returns, about £50 weekly; rapidly growing district; very handsome shop; fully stocked; price, £2,000; personally recommended.

2.—HANTS.—Genuine light Retail, with Kodak Agency and own specialities; returns, £1,500; net profit over £400; good position facing the sea; valuable lease; fully stocked; price, about £1,285.

3.—BUCKS.—Unopposed light Village Business; returns, £16 weekly; under female management; low rent; lock-up shop only; well stocked; price, £500; suitable for lady chemist.

4.—SHROPSHIRE.—Good-class Light Retail, with Kodak Agency; returns, £35 to £40 weekly; good profits; plenty of scope; busy market town; large, well-fitted shop; lock-up, and fully stocked; price £1,500.

5.—SOMERSET.—Old-established good-class Business, in busy market town; returns were £2,500, but badly neglected; splendid chance for live man; low rent; on lease; double-fronted shop, fully stocked; price about £1,200.

6.—LONDON SUBURB, S.E.—Good middle-class Retail Business, with small Photo trade; selling through ill-health; returns, £2,300; net profit, approximately £700; good house; large, well-fitted pharmacy, fully stocked; price £1,850.

7.—LONDON, E. (in Busy Main Road).—Genuine Cash Retail, with N.H.I.; returns, £45 weekly; large shop, well fitted and stocked; price £1,600, or offer; part can remain.

BUSINESSES WANTED.

Messrs. BERDOE & FISH are in immediate want of businesses, and vendors will find it to their advantage to correspond with us, we having at the present time a large number of genuine cash buyers with from £700 to £4,000 at command, and ready to take over at once; private registers kept, and strict privacy assured. Valuation offices, 41 Argyle Square, King's Cross, W.C.1.

STOCKTAKING VALUATIONS.

We are now booking dates for October and November, and invite early correspondence. Terms sent on application.

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FRANK POYSER

Valuer, Transfer Agent and Expert Stocktaker,

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18 Years' Experience in all Branches of the Retail Drug Trade.
DUPLICATING AND COPYING at the shortest notice.
Trade Circulars, Price Lists, Particulars of Businesses for Sale, etc., etc.
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Stock Valuations for all purposes and accounts prepared to meet Income Tax difficulties.

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All valuations have the personal attention of F. J. Brett, M.P.S.

TRANSFER AGENTS AND VALUERS.

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WANTED.

BUSINESS, North or North-West; cash, about £1,600.

MIDLANDS.—One, cash up to £1,000; another, cash up to £2,500.

First-CLASS RETAIL any district; cash to £3,000, with security for anything over.

Number of Buyers with cash ready in most districts.

BUSINESSES WANTED.

CHARLES C. MARSDEN

Valuer, Transfer Agent and Stocktaker.

44 SHOLEBROKE VIEW, LEEDS.

Stocktaking Valuations at special reduced terms

INCOME TAX returns completed.

BALANCE SHEETS prepared.

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12 Charterhouse Square, LONDON, E.C.1

BUSINESS OWNERS desiring quick sales invited to send particulars. Periodical Stocktaking by our experienced Stocktakers recommended as only means of determining true position and profits.

TENDERS.

TO WHOLESALE DRUGGISTS AND CHEMISTS.

Re Mrs. E. I. Lucas, trading as a Chemist at 38 Dunraven Place, Bridgend, in the County of Glamorgan.

M R. ARTHUR S. T. LUCAS has been instructed by Parkin S. Booth, Esq., the Trustee under a Deed of Assignment, to invite Tenders for the Stock in Trade, including Bottles, Jars and Containers, Fixtures and Fittings, as per Schedule, in the following Lots:-

LOT 1.—The whole of the Stock in Trade, which has been carefully taken at actual present Trade cost prices by a qualified Chemist (together with all Labelled Bottles, Jars and Containers), as per Schedule, at the estimated value of £452 1s. 5d.

LOT 2.—The whole of the Trade Fixtures and Fittings on the premises, as per Schedule, at the estimated value of £127 6s.

Buyers may Tender for the 2 lots as a whole or for the lots separately.

All Tenders must be sent in sealed envelopes on or before the 29th day of October, 1924, and addressed to the Trustee, Parkin S. Booth, Esq., Kimberley House, 14-17 Holborn Viaduct, London, E.C., who reserves the right himself to accept or reject any Tender.

Schedules of the separate Lots may be inspected at the Offices of the Trustee, or at the Offices of Arthur S. T. Lucas, Auctioneer and Valuer, 6 Rutland Street, Swansea (estbd. 1885).

Arrangements can be made for the Lots to be inspected on the premises at Bridgend by applying to the Auctioneer at Swansea or to the Trustee in London.

(British, Foreign and Colonial Patents, Trade Marks and Designs registered through eminent London Chartered Patent Agents.)

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

H OME COUNTY (Good-class Residential Town).—Cash Retail Business, with good Dispensing connection; average turnover for last three years £2,947; net profit £743; large double-fronted shop, fitted by Maws in mahogany; living accommodation includes four bedrooms, two sitting-rooms, kitchen, scullery, bath room, large cellar and garden; owner leaving trade; price £2,250, plus freehold property £1,600. Apply 52/622, Office of this Paper.

L ONDON, S.E. (Residential District).—Good Dispensing and Retail Business for Disposal, with P.O. attached; good living accommodation; situated in main road; no opposition; rent £46 a year; good lease; returns £1,400; price for stock, lease, fixtures and goodwill all at £1,250. 87/34, Office of this Paper.

L IVERPOOL.—Sound Light Retail, Prescribing, Photographic and Dispensing Business for disposal; Kodak Agency; nice house attached, side entrance, dining room, drawing room, six bedrooms, three large cellars; electrically lighted; Private Dispensing with repeats, 1,500 to 2,000 annually; Panel scripts 6,000 (about 7,000 items annually); good Photo. trade, with Developing and Printing; several good Proprietary Medicines; Special Toilets and Babies' Requisites Department attached; would suit Pharmacist with wife or daughter interested in retail; takings, 1921, £5,004; 1922, £4,400; 1923, £4,000; books properly kept; price £2,250. Replies "Confidentially," 81/13, Office of this Paper.

M IDLAND CITY (working-class suburb).—Genuine Chemist's Business, returning £1,700 per annum; lease; rent £42; good house; Kodak Agency; owner negotiating larger business; price £950. 86/11, Office of this Paper.

N EAR Seaside (N. Wales).—Small Business for Sale; newly established; growing district; unopposed; lock-up shop; rent £20 per annum inclusive; main street; suit beginner, lady or elderly; opening for N.H.I.; returns about £500; chance of a lifetime; price to be arranged. Apply, enclosing stamped-addressed envelope, "N. D." 87/13, Office of this Paper.

N ORTH YORKSHIRE.—Genuine old-established Business, in consequence of ill-health; average returns last five years £1,900; no N.H.I.; capable of great improvement with qualified man; Kodak Agency, Wine Licence; good opening Optics; rent £42; price £150; stock and fixtures valuation, about £1,500 or nearest offer; cash buyers only; no agents. 84/37, Office of this Paper.

S OUTHSEA.—Modern d.f. Pharmacy; large and increasing turnover; very valuable lease; large house attached; would suit an up-to-date Pharmacist, as it is capable of large increase; only genuine applicants need apply, and references are required. 76/27, Office of this Paper.

C ASH Drug Store in busy S.W. suburb; good-class trade; returning about £1,000 per annum, increasing; quite 50 per cent. gross profit; well stocked and good house accommodation; renewable lease at moderate rent and rates; chance seldom met with; absolutely genuine; vendor taking up other duties; scope for N.H.I., Photography, Optics, etc. "Scope," 86/37, Office of this Paper.

C HEMIST'S Business for Sale, prosperous town N.E. of Scotland; good overturn. Particulars from W. Paterson & Sons, Wholesale Manufacturing Druggists, Aberdeen.

C HEMIST'S Business for disposal near Portsmouth; takings average £18 to £20 weekly; corner shop, six nice rooms, side door, and garage; rent £40 on lease, with option of freehold; established 14 years; incoming, £600, includes about £350 stock; exceptional opportunity for energetic man to add N.H.I. and Photographic Materials. Bowler & Blake, Business Transfer Agents, Fratton Bridge, Portsmouth.

C OUNTRY Retail Chemist's Business, with freehold premises in main thoroughfare; situated in the heart of Devon, near Torquay; splendid opportunity; principals or solicitors only. 52/624, Office of this Paper.

D ISPENSING and Photographic Cash Retail Business, London; opening for Optics or Dentistry; living accommodation available; genuine concern; scope for increase; returns about £40; owner going abroad; long lease; price £900, nearest offer. "Bon," 86/17, Office of this Paper.

D RUG Stores (two) for £600; one has a lease for seven years and the other an agreement for one year; rents £75 and £90 respectively; both are let off 18s. per week. Durham Bros., 87 Mincing Lane, E.C.2.

F OR Sale, Surgical Business in large city, North of England, doing high-class business; principal thoroughfare; rent low; lease can be arranged; offers invited; continued ill-health of family reason for disposal. 80/31, Office of this Paper.

G OOD Mixed Business in good position and freehold property, £1,000. Apply "West Riding, Yorks," 80/27, Office of this Paper.

£700.—Vendor, through ill-health, forced to dispose of small Drug and Photographic Store; main road, outskirts London; 14 years' lease; rent £32; 6-roomed house, commodious outbuildings, sub-let £20; electric light and gas; household furniture, stock, fittings; sacrifice for quick sale; good opening for N.H.I. and Optics. 85/37, Office of this Paper.

£750 OR REASONABLE OFFER.—Retail and Dispensing Business, in pleasant market town, Co. Durham; nicely-fitted shop, double front, 8-roomed house; opened in May; and averaging £20 weekly; good opening for veterinary trade; rent, £45; satisfactory reasons for selling. Also in Co. Durham, old-established Chemist's; turnover, about £2,200; price £2,700, including property valued over £1,500. Marsden, 44 Sholebroke View, Leeds.

£1,000 ALL AT.—Well-fitted Shop in very busy part of London, S.E. Particulars, 52/615, Office of this Paper.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

LIVE Foreign Agents wanted to sell well-known advertised series Toilet Articles and other Proprietaries; most countries not yet represented. Apply 52/609, Office of this Paper.

MANUFACTURERS' Agent, established 15 years, London, solid live connection with all leading Wholesale Druggists' Sundriesmen, Surgical Supply Houses and Shippers, desires an additional Agency on commission basis; inquiries invited from actual manufacturers of good standing; preference will be given to firm having some connection. P.C.B. 12/32, Office of this Paper.

BUSINESSES WANTED.

LONDON OR SUBURB.—Cash Business wanted, turnover about £1,000, with small living accommodation preferred; price must be moderate; neglected business entertained. "Chemist" (P.C.B. 13/34), Office of this Paper.

CHEMIST'S Business wanted in Liverpool or district; one neglected not objected to. Full particulars, in confidence, to 87/20, Office of this Paper.

WANTED, Dispensing Business, if possible sea coast within 100 miles London; purchaser could find £4,000-£5,000; principals only. Reply, in confidence, "M.P.S.", 52/625, Office of this Paper.

PREMISES FOR SALE.

SALE WITH POSSESSION.

CATHEDRAL TOWN OF BRECON, SOUTH WALES. In a prominent and very important position in the business centre of the Town. Sale of attractive Freehold Shop, Café and Dwelling House.

M.R. W. J. PRICE, F.A.I., has been instructed to offer for sale, by auction, at the Wellington Hotel, Brecon, on Tuesday, the 21st day of October, 1924, at 2.30 p.m. (subject to conditions of sale), the Premises known as the

"CAFE ROYAL."

now run as a shop and restaurant, but very suitable for any business purposes, situate on the Bulwark, the main thoroughfare, and with frontage thereto, with a good warehouse off Lion Street. The premises are 4-storey high and of recent build, and will be offered with possession on completion of sale.

Further particulars from the Auctioneer, 6 Bulwark, Brecon.

COVENTRY.—To be Sold, in one of the most progressive suburban positions, a capital Freehold Corner Property, comprising 3 bedrooms and bath, side hall entrance, excellent retail shop, living room and kitchen; ear access; fine position for a Chemist; no opposition. For further particulars apply Edward H. Marston, Auctioneer, 30 Smithford Street, Coventry.

CHEMISTS.—Finest opening around London for good Dispensing Chemist; modern main road shop and flat; busy position; continuation of main shopping market; capital Freehold Premises now ready, or would be let to substantial tenant on lease; grand opportunity. Particulars of Leslie Raymond, F.S.I., F.A.I., The Estate Offices, Golders Green, N.W.11.

EXCELLENT opportunity for Chemists in important market towns in South of England; no opposition; in thickly populated district; long lease; rent £100; no premium. Apply 52/623, Office of this Paper.

PARTNERSHIPS.

EAST LANCS.—Half share of old-established Wholesale Patent Medicine Co.; last year's turnover over £16,000; good connection in East Lancs. and West Riding; full investigation; splendid opportunity for travelling partner; vendor leaving business. 77/16, Office of this Paper.

CHEMIST, 31, desires post as Manager with a view to early succession, or Partnership; excellent practical experience in all branches of the business; at present holding responsible managerial position, but desirous of getting on still more; capital at command moderate, but energy and enterprise unlimited; highly recommended. Particulars (in confidence) to 84/32, Office of this Paper.

OPPORTUNITY for Pharmacist to acquire share in business, with view to succession if desired; capital £1,000 to £1,500; bankers' reference; personal interview preliminary to full investigation. 86/32, Office of this Paper.

FOR SALE.

FOR SALE, two Capping Machines for aluminium peel-off caps; one foot operated, one hand operated. Write Lewis Berger & Sons, Ltd., Homerton.

NO. 5 Cartridge Kodak, in good condition, £3 10s.; Sander-son Camera, Regular pattern, 5 x 4, Koilos shutter, Watson's Holostigmatic lens, Series 1, film-pack adapter, 3 D.D. slides, 2 film packs, brown leather case, condition perfect, £10 10s. Apply C. Goode, 11 King Street, Twickenham.

APPRENTICESHIP.

NATIVE of Mombasa, 18 years, now in this country, who has passed Preliminary and is registered as a Student, desires two years' Apprenticeship to Retail Pharmacist. Write P.C.B. 13/31, Office of this Paper.

SITUATIONS OPEN.

[HOME.]

RETAIL.

BETHNAL GREEN BOARD OF GUARDIANS.

ASSISTANT DISPENSER.

THE Guardians require the services of an Assistant Dispenser to work at their Hospital in Cambridge Road, or their Institution in Waterloo Road, Bethnal Green, as may be required. Salary at the rate of £200 per annum.

Candidates should possess the Major or Minor qualification of the Pharmaceutical Society, and must make application upon official forms to be obtained from the undersigned.

Applications must reach the under-mentioned address not later than first post on the 16th October, 1924.

By Order,

C. FAULKNER JONES,
Clerk to the Guardians.
Administrative Offices,
Bishop's Road, Bethnal Green, E.2.
3rd October, 1924.

BIRMINGHAM DISTRICT.—Qualified lady Assistant, chiefly as Cover (light duties); salary must be reasonable.—Apply 84/28, Office of this Paper.

BRISTOL.—Junior Assistant wanted; gentlemanly; good references; accustomed to good-class Dispensing; state age, previous experience and salary required. Clark & Wheeler, Queen's Road, Bristol.

BURY ST. EDMUND'S.—Reliable Assistant required for good-class country business; Dispensing and Counter; qualification not essential; permanency to good man. Please give full particulars of experience, age, height, and salary expected, with references, to W. H. Stones, 56 Abbeygate Street, Bury St. Edmunds.

EALING.—Young, energetic, qualified Manager wanted at once for Branch; must be capable of building up new business and have good Photographic experience; flat provided over shop. Write Marns & Edkins, Ltd., c/o R. F. Edkins, 10 The Vale, Acton.

GRAVESEND.—Wanted, a qualified Assistant, about 25, towards end of October for good medium-class business; must be quick and accurate Dispenser and capable of effecting sales over counter; give full particulars in first instance; state salary required. E. Millhouse, Chemist, Gravesend.

LONDON, N.—Wanted, young Qualified Assistant with good Dispensing experience. Please state full particulars, including salary required; outdoor or indoor. Saunders, 50 High Street, Highgate.

LONDON, S.W.—Assistant (unqualified), about 40, experienced, and smart Confectioner; accustomed to good-class business; permanency. 52/590, Office of this Paper.

LONDON, S.W.—Wanted, early in November, qualified Assistant, with good Dispensing, Counter and Photographic experience. Write, giving full particulars and salary required, to A. T. Gray, 5 High Street, Barnes, S.W.13.

LONDON, S.W. (near Colleges).—Wanted, unqualified Assistant for four evenings, 6-8, and Saturdays 6-9, chiefly N.H.I. and assist Counter; also Junior, 18-23, for middle-class Retail, N.H.I. and Photo business. Apply, usual particulars, references, salary, etc., or call 11 to 4 o'clock at 169 Hemingford Road, Barnsbury, N.1.

LONDON, W.—Wanted at once, Junior Assistant, male. State, with other details, salary required. Edkins, 10 The Vale, Acton.

LONDON, W.—Experienced, unqualified Assistant, for Cash Business; outdoors; Window-dressing and knowledge of Photography essential; under 30. State age, experience, references and salary required, to W. E. D. Shirtliff, 66 Goldhawk Road, Shepherd's Bush, W.12.

LONDON, W.—Photo. Chemist; qualified; must be experienced at Retail Photo business, good Salesman, and able to work up neglected business in all branches, Photo, Toilet and General Retail; not much Dispensing; vacancy middle of October. State experience, salary required, and when at liberty. 85/30, Office of this Paper.

LONDON, E.2.—Assistant required; qualified preferred; good Dispenser N.H.I., Counter, etc.; good references required. Write, stating age, salary (moderate), height, and usual particulars. No reply in 6 days respectfully declined. 86/33, Office of this Paper.

LONDON SUBURB.—Unqualified Assistant, young (recently passed Minor would suit), for good-class business; smart appearance, pleasing manner, and tactful Salesman essential. State full experience and when disengaged, to the Manager, Matthews & Son, 722 High Road, Leytonstone, Essex.

MAIDENHEAD.—Qualified Assistant (about 30); good general experience and Photographic necessary. Please apply by letter, stating salary required, to Rock & Brakespear, Chemists, 136 High Street, Maidenhead.

SLOUGH, BUCKS.—Wanted, in about a fortnight, qualified or unqualified Assistant, but keen and energetic young qualified man seeking experience and permanency preferred, middle-class Retail business. Please state full particulars and salary expected. Charles Sangster, Chemist, Slough.

SOUTH YORKSHIRE.—Required, Chemist-Optician as Manager; must have held similar position, and able to furnish first-class references; give fullest details in first letter; can wait six weeks if necessary for right man. Apply 80/28, Office of this Paper.

WEST END.—Qualified Assistant (male) for high-class Retail and Dispensing Chemist's only; usual hours. State salary, height, experience, and enclose photo. 87/19, Office of this Paper.

AN Assistant wanted for Dispensing Dept., qualified (male); must have had good experience; salary £5 weekly. Apply, giving full particulars, to D. P. Roberts, Chemist, Poplar Walk, Croydon.

ASSISTANT required; accurate and quick Dispenser; good at Window-dressing and Counter. Write, giving full particulars of experience, with references, age, and wage required, to Jackson, 645 Fulham Road, S.W.6.

ASSISTANT (male) for good-class Dispensing business; usual particulars and salary required. Bishop, Chemist, Tunbridge Wells.

ASSISTANT, qualified or unqualified, must be good Window-dresser, able to take charge, for Dispensing and Photographic business; age up to 30. Please give full particulars and say whether disengaged to Gerald Morris, The Rexall Pharmacy, 24 High Street, Rochester.

ASSISTANT, unqualified, wanted; Dispensing, Counter and Photographic; age about 25-35. Applications not answered in 5 days declined. Jordan Bros., 50 High Street, Grays, Essex.

BRANCH Manager (qualified) wanted for Light Retail and Dispensing business; must be good Counterman and Window-dresser, with knowledge of Sight Testing and Photography; Junior kept; married preferred; live on premises. Apply, giving full particulars as to age, salary, experience, etc., with recent references, to John W. Ailsby, 35 High Street, Whittlesey, Cambs.

EXPERIENCED qualified and unqualified Retail Chemist Assistants required. Apply, by letter, to Boots Pure Drug Co., Ltd., Station Street, Nottingham.

EXPERIENCED Manager required for good-class London Pharmacy; must be good business man and have had first-class experience; outdoors; no Sunday duty. Apply "X," 52/618, Office of this Paper.

JUNIOR Assistant for quick cash business. Reply, stating salary required, age, and height. Good general experience essential; capable of taking charge; references and photo (if possible). Glanville, Chemist, 112 Haslemere Road, Southsea.

JUNIOR Assistant or Improver, of smart address, required at once, for high-class Dispensing Business, near London. Apply, with full particulars of age, experience and salary required, to R. W. Bowles, Pharmaceutical Chemist, Beaconsfield, Bucks.

JUNIOR Assistant (outdoors) wanted at once for good-class Retail and Dispensing. Usual particulars, age, salary, etc., to F. W. Hayward, 81 High Street, Teddington. No interview until 13th.

LADY Assistant, not necessarily qualified, good Dispenser, pleasing manner, and tactful Saleswoman, for good-class business within easy access of Epping Forest and London. Full experience and salary to the Manager, Matthews & Son, 722 High Road, Leytonstone, Essex.

LADY Assistant required, qualified preferred, but not essential, for South Coast business; Light Retail, Dispensing and little Photography; must have had Counter and Dispensing experience. Kindly state age, experience, salary, and all particulars. 86/1, Office of this Paper.

MANAGER, to open Drug Stores, in the West of England; real live man, about 40; single preferred; splendid chance. Apply, personally, Wavell & Co., Chemists, 144 Victoria Street, S.W.1.

OPTICIAN, qualified, with knowledge of Chemist's business preferred, for Midland city. Please give references, salary, etc. 86/6, Office of this Paper.

QUALIFIED married Manager required for good-class Retail Dispensing and Photographic business. Apply, stating age (not under 30), references, salary required, etc., to Allen & Lloyd, Station Road, Aldershot.

QUALIFIED Dispenser and Book-keeper (lady), outdoor, wanted by Doctor, Sussex. State age, salary, and give recent reference or copies of testimonials and experience to 83/11, Office of this Paper.

QUALIFIED Assistant wanted; able to manage; single; outdoors; good Counterman and Dispenser essential, with knowledge of Photography, for colliery district. Apply, stating age, salary required and full particulars of experience, etc., to G. A. Pickering & Son, Chemists, Royston, Barnsley.

QUALIFIED Assistant (male) required for Country Business at once; Prescribing experience advantageous; N.H.I.; no Sunday duty. Write, giving full particulars of experience, age, salary required (outdoors). Letters not answered in 4 days respectfully declined. R. Watts, Chemist, Rainham, Kent.

QUALIFIED Relief Man wanted; young man with experience of quick Cash business and Photographic preferred; about four days weekly; remuneration, £1 per day; highest references essential. Apply by letter, stating age, height, and when at liberty. Barkers, Chemists, 221 Upper Tooting Road, S.W.17.

QUALIFIED Manager and unqualified Assistant required; must have had thorough all-round experience and undeniable references; good prospects for the right man. Apply 3 Ridgmount Street, Tottenham Court Road, W.C.1.

QUALIFIED, keen, active, single, pushful man, must be good Dispenser and Prescriber, hours 8.30 to 8, 9 p.m. Saturdays, for part charge, with interest, in small branch good-class with N.H.I.; right man permanent, progressive berth. State age, experience, lowest salary. "Reze," 29 Surbiton Road, Kingston-on-Thames.

QUALIFIED Assistant for good-class Pharmacy; Dispensing, Counter and Window-dressing. State age, height, and salary required to Prebble & Bone, Chislehurst, Kent.

QUALIFIED Assistant required, capable of managing, able to instruct young apprentice; good-class business; N.H. Dispensing and private, Photography; honest, energetic, reliable, gentlemanly; perhaps interested in Scout movement; single; under 40. "Dolphin," 87/8, Office of this Paper.

QUALIFIED Manager required for busy, all-round, middle-class business; married preferred (accommodation available). State all particulars, age, salary, experience, etc., to 87/33, Office of this Paper.

REQUIRED, a qualified lady or gentleman for relief work on Thursday and Sunday evenings. Apply Hay's Drug Stores, Ltd., 77 Carlton Vale, Maida Vale, N.W.6.

SMART Junior Assistant wanted. Apply, with full particulars, age, salary required, etc., P.C.B. 13/17, Office of this Paper.

SSMART young Assistant (male), qualified, for good-class Family Retail and Dispensing; outdoors; energetic, trustworthy, and capable of taking charge occasionally. Particulars of experience, salary required, with recent photo (if possible) to W. Riddle, Cobden Bridge Pharmacy, Bitterne Park, Southampton.

S. W. VINCENT, 94 High Street, Clapham, require a part-time Assistant; experienced in Dispensing.

WANTED, experienced unqualified Assistant; outdoors; well up in Dispensing, Counter and Window-dressing, for quick cash business; good all-round knowledge essential. Apply, in first instance, by letter, giving age, salary required and full particulars, Milner, Chemist, Greenwich.

WANTED, reliable Junior, male (outdoor), about 20; Light Retail and Dispensing; no Sunday duty. Full particulars and salary required to Poole, 84 Sheen Road, Richmond, Surrey.

£3 10/- weekly; London, W.; unqualified Assistant; previous London experience essential. Apply 84/10, Office of this Paper.

WHOLESALE.

IRELAND.—Representative required for Northern Counties; preference given to applicants of strong personality, with established connections amongst leading Chemists, Stores, Hairdressers, etc., for established line of Toilet preparations, Toilet Soaps, etc.; splendid opportunity for right man. Reply, in first instance, giving full details, past and present employment, ground covered, basis of remuneration, etc., 52/617, Office of this Paper.

IRELAND.—Representative required by established Manufacturers for high-grade Toilet preparations, for Irish Free State; preference given to applicants who have already established connections with leading Chemists, Stores, etc., and who can command new business and maintain already established business; only gentlemen of good address considered; interviews can be arranged to take place either in Dublin or London. Reply, in first instance, giving full details past and present employment, ground covered, basis of remuneration, etc., 52/616, Office of this Paper.

NORTH-WEST LANCASHIRE, Westmorland and Cumberland.—Salesman wanted by old-established house, Packed Goods and Sundries; whole or part time; liberal commission basis. 52/613, Office of this Paper.

SCOTLAND.—Surgical Dressings Manufacturers require Representative to call on Hospitals, Nursing Homes, etc., throughout Scotland. Applicants should state fullest particulars of previous experience and age to 52/611, Office of this Paper.

A experienced Pill and Tablet man required by a London Wholesale Druggists. State full particulars and wages expected to 52/602, Office of this Paper.

DRUGGISTS' Sundries House requires resident part-time Representatives (with own car preferred), for Lancashire and Yorkshire, Midlands, North and South Wales, and Ireland. Reply, giving full particulars, 84/27, Office of this Paper.

ESSENCE MAKER.—Old-Established firm require an Essence Maker; only first-class men of experience need apply. Write, with full particulars, to P.C.B. 13/18, Office of this Paper.

LARGE firm of manufacturers require services of thoroughly live Representative to call upon Chemists in various parts of the country with their productions in Camera Cases, Water Bottles, and general Surgical Rubber Goods; commission paid on all orders received from the ground; very extensive connection will be handed over to suitable agent. State ground covered and details of connection. 52/594, Office of this Paper.

LADY required by Wholesale London House of Manufacturing Chemists for determining spirit strengths for Customs purposes; one with some experience preferred. Apply by letter, stating age, qualifications, and wages required, to "S. H." 52/614, Office of this Paper.

LONDON Proprietary House require an Under-Checker (male) for Warehouse. Apply, stating salary required and previous experience, to 52/621, Office of this Paper.

MANUFACTURERS of high-grade American Hot Water Bottles require Representatives, at present calling on Retail Chemists, etc., to represent them on commission in the Counties of Essex, Herts, Bucks, Berks, Wilts, Dorset, Somerset, Devon, Cornwall, Surrey, Sussex, Kent and Hants. Apply, stating nature of present business, to P.C.B. 12/27, Office of this Paper.

PERFUMES AND TOILET SOAPS.—Travellers required, calling on Chemists. Only those with good connection apply, with full particulars, to "H." stating commission required and territory covered. P.C.B. 13/33, Office of this Paper.

REPRESENTATIVE wanted, covering the South Coast, to take up additional Representation of a very live house selling Tablets, Pills, and Packed Lines for Chemists only; very large number of open accounts on ground; small salary and liberal commission to good man; no objection to non-competitive lines being carried; also vacancy in Lancs and Yorks; all applications received in strictest confidence. "Advancing," 52/610, Office of this Paper.

REPRESENTATIVE, few special Sundry Lines; must have established connection; please state ground covered, lines handled, good commission basis. P.C.B. 12/11, Office of this Paper.

SUNDRIES.—Provincial Wholesale House requires Clerk, with extensive experience in Chemists' Toilet Sundries; removal expenses paid. Mention, in strict confidence, age, particulars of present (or if disengaged, last) situation, including precise duties, approximate wages desired. 52/619, Office of this Paper.

TOILET BRUSHES.—Required, by London firm of Manufacturers, Representative, for Retail trade; connection essential. Full details of experience, territory, etc., to 84/14, Office of this Paper.

TRUSSES.—Practical man wanted to take charge of department in the Midlands for manufacturing Elastic Band Trusses, etc. Send full particulars to 52/620, Office of this Paper.

[COLONIAL, INDIAN AND FOREIGN.]

CEYLON.—Dispenser required for Ceylon, holding Minor Certificate, age 24-28 years, single; must be of sober and steady habits, of good address, smart and pushful; 4 years' agreement at progressive salary. Apply in first instance, with full particulars of experience, etc., to "Dispenser," 52/608, Office of this Paper.

REPRESENTATION.—Swiss firm wants Representation for all Pharmacy and Druggists' Articles; references at disposal. Apply, under cipher "Z2695OL," to "Publicitas," Lausanne.

SITUATIONS WANTED.

RETAIL.

[HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.A. —COMPETENT, energetic Assistant; first-class Dispensing and Counter experience. "Statim," The Chymes, Ham Road, Wcrtbing.

A.A.A. —QUALIFIED, 27, tall, single, of smart appearance; desires position, Locum or permanent; London or provinces; excellent references; now disengaged. J. S. Willcocks, Datchet, Bucks.

A.A.A. —As Assistant, 23, unqualified, Square trained, 5 years' Counter and good Dispensing experience, used to good-class Pharmacy, desires post in London or provinces. E. Milner, 133 Jerningham Road, New Cross, S.E.

A.A.A. —Well-educated Assistant, 21, of smart appearance, desires situation as Improver; five years' excellent Dispensing experience; knowledge of Counter work, etc.; passed Part I; excellent references. B. H. Wills, Aston House, Aston Rdad, Coventry.

A.A. —SMART, Qualified Man, 29, requires position in good-class Pharmacy; excellent experience, London and provincial; energetic. 87/22, Office of this Paper.

A.A. —AS Assistant; unqualified; young; good-class experience; Dispensing and Retail; very good references; West End preferred. "London," 86/31, Office of this Paper.

A.A. —QUALIFIED Assistant, 25, seeks change where practical knowledge of Sight Testing may be acquired; at present studying Theory. "C." 92 Samuel Street, S.E.18.

AS Manager or Branch Manager; Major; 45; good, solid, all-round experience; Prescriber; active, with initiative; Leeds or North preferred (not essential). Clarkson, 8 Apsley Street, Hyde Park, Leeds.

AS Junior (22) in London; good-class West-End experience; Photography; capable and willing; free. Apply 87/13, Office of this Paper.

ASSISTANT or Manager; qualified; Photographic; best experience; London or suburbs; four guineas per week; outdoors. "Pharmacist," 15 Hestercombe Avenue, Fulham.

ASSISTANT; qualified; lady; quick and accurate Dispenser; Counter, Photography; excellent references; interview at any time. 86/39, Office of this Paper.

ADVERTISER, age 29, wishing to re-enter business after lapse of some years, seeks part-time employment within reach of Oxford Circus; passed Pharmacy and Poison Law last examination; experience more important than salary. Write Box 24,387, Clarks, 57 Mortimer Street, W.1.

AGRICULTURAL, qualified man, young, tall, able to work, desires position in Agricultural business, Assistant or Manager. 80/30, Office of this Paper.

APHARMACIST, capable, middle-aged, as Dispenser or Senior. "E." c/o Davies, 395 Commercial Road, E.1.

ASMART Counterman, reliable Dispenser, successful Manager; temporary, permanent; unqualified; 47. "Chemist," 11 Kingsdown Road, Holloway, N.19.

AWOMAN Ph.C. (25), Square trained, 6 years' Retail, Dispensing and Photographic experience, 1 year branch manager, desires post. 85/32, Office of this Paper.

ADVERTISER; moderate terms; good references; accustomed to managing; first-class Counter and Dispensing; Locum or permanency; disengaged. "Reliable," 49 London Street, Andover, Hants.

A Dispenser, Book-keeper, lady, experienced, Hall certificate, desires post. A. M. Walkden, 39 Castle Street, Reading.

AS Assistant at once in Counter and Dispensing business; age 36; height 5 ft. 8 in.; London, provinces, or within reasonable distance of; interview. Replies to A. J. Dawson, 4 College Gardens, Brighton.

AS Dispenser-Book-keeper (permanent or otherwise); free now; well recommended. Miss Willis, 7 Atterton Road, Forest Gate, Essex.

ASSISTANT, senior; speciality high-class Dispensing and Photographic; 5 years' seaside; highest references. Jennings, 61 Tower Street, Dudley.

ASSISTANT, qualified, 30, with view to succession; West of England; moderate salary; good experience and references. Address 85/12, Office of this Paper.

ASSISTANT; disengaged; quick; middle-aged man; thoroughly experienced, London and provincial; salary £3; anywhere. Harrison, 117 Green Street, Forest Gate.

ASSISTANT; unqualified; 30 years' good experience (all round), London and country; good credentials. "Chemicus," 33 Connaught Road, Harlesden, N.W.

ASSISTANT, 23, unqualified (referred Mat. Med.), seeks post in Cardiff or South Wales; good Dispenser and Counterman, Photography; disengaged. Mathias, 22 Marlborough Road, Cardiff.

ASSISTANT; unqualified; 34; good experience, Counter, Stock and Dispensing; knowledge of Photography. E. Searle, 2 Carlisle Avenue, Plymouth.

AT YOUR SERVICE!—Assistant; age 36; unqualified; good education; married; all-round Retail experience, London and provinces; well up in Photography; Salesman; keen, smart, energetic; Retail Wireless Department Manager. 87/6, Office of this Paper.

ATRACTIVE Window-dresser, Salesman, Dispenser, good knowledge Kodaks, Rexall, unqualified, 22, tall, seeks high-class position near Pharmacy School, Lancashire or Midlands. Please state hours, salary offered, etc. "Efficiency," 86/7, Office of this Paper.

BRANCH Manager or Assistant; unqualified; good Salesman; used to quick Store trade; good references. "M.", 49 Rosenthal Road, Catford, S.E.6.

BRANCH Manager; 15 years' experience; first-class references; disengaged 18th; qualified. "Citrate," 191 Bethnal Green Road, London, E.2.

BURTON-ON-TRENT or near preferred; Junior, 19; 3 years' experience Counter and Photography. F. Jessop, High Street, Newport, Salop.

CITY or West End.—Young, tall, qualified; Manager or Assistant in good-class Pharmacy; personal interview desired, any afternoon; free October 20. H. Gardner, 261 Finchley Road, N.W.3.

DISENGAGED; unqualified; 18 years' experience, Dispensing, Photo, Counter, and Window-dressing; good Salesman; Optical; would like permanency; salary required £4; in or near London. 79/27, Office of this Paper.

DISENGAGED, October 20, experienced male Pharmacist; Locum or permanency; moderate salary. Chemist, 68 Grosvenor Road, Hanwell, W.7.

DISENGAGED; qualified; experienced; Dispenser and Counter-man; active; middle-aged; moderate salary. James, 66 Vaneover Road, Forest Hill, S.E.

DISENGAGED.—Permanency required for a man not afraid of work; capable and trustworthy; tall; married. State salary offered to "H." 4 Marsham Street, Maidstone.

DOCTOR'S daughter (Hall), experienced, desires Dispensing immediately. "H." 33 Egerton Gardens, Ealing.

EXPERIENCED Assistant, unqualified, seeks position in London; disengaged October 25, 1924. H. M. M., 99 Sutton Crescent, Maida Hill, W.9.

EXPERIENCED, unqualified, all-round Assistant seeks re-engagement; permanency desired; disengaged. "E. S.", Hawthorn Villa, Cusop, Hay, Hereford.

GOOD OPPORTUNITY.—To acquire services of young Assistant; well up in Dispensing and D. and P.; passed Part I of the qualifying examination; little salary. "R. B. M.", 2 Angell Road, Brixton.

IMPROVER.—Mr. Taylor Lloyd, Pharmacist, Aberystwyth, can recommend Assistant, available November 3; reliable Dispenser, Counter, Photography, Window-dresser; age 19; London preferred. Apply above.

JUNIOR seeks permanent situation in or around London; four years' apprenticeship; age; 19; tall; excellent references; November 1 or shortly before. 84/18, Office of this Paper.

JUNIOR, 21; tall, keen, and willing; 4 years' first-class experience, including seaside; Dispensing, Counter and Photography. E. Jones, 59 Ruabon Road, Wrexham.

JUNIOR, 20, desires situation; good Dispensing and Counter experience; in or near Camden Town. C. O'Brien, 49 Hawley Road, N.W.1.

LADY Dispenser desires situation with Doctor or Institution at beginning of November; 3 years' Dispensing experience; able to drive car. Miss McCabe, 26 Eccleston Square, Victoria, S.W.1.

LADY desires post with Doctor or Institution as Dispenser or Secretarial Book-keeper. Crabtree, Glencoe, Edge Lane, Stretford.

LADY, qualified (Scotch), wishes situation with Doctor, Chemist or Hospital in London; excellent testimonials. 83/2, Office of this Paper.

LADY, 22, qualified, desires post with Doctor or good-class Chemist; excellent testimonials; quick and accurate Dispenser. "Goodall," 90 Common Road, Huthwaite, Mansfield, Notts.

LADY, 24, qualified, desires post, London; experienced Retail and Dispensing. "N. J.", 20 Leamington Road Villas, Bayswater, W.11.

LADY Dispenser, 20, requires post; good references; South Coast preferred, not essential. Hazeldine, 36 Dartmouth Road, Olney, Bucks.

LADY Dispenser, 21, Hall qualifications, seeks post with Doctor or Institution. E. Middleton, Highland Grove, Worksop.

LADY Dispenser, passed Part I, square trained, requires post, London or suburb. B. B. Sutherland, Whitton Road, Hornsby.

LADY Dispenser and Assistant, 24, desires post with Chemist or Doctor, in Devon or district; 7 years' good experience Dispensing, Book-keeping and Counterwork; excellent references. Phillips, 76 King Street, Wellington, Shropshire.

LADY Dispenser (Hall) requires post, Doctor, Institution or Hospital; 3 years' experience. Allanson, 3 Cavan Road, Redbourn, Herts.

LADY Dispenser, experienced, desires post, locum or permanent, with Doctor, Institution or Chemist (Hall); book-keeper, typing etc. 38 Sinclair Road, W.14.

LADY, unqualified, requires post with Chemist; 7½ years' experience, Counter and Dispensing; Locum or permanency. Apply Williams, 98 Severn Road, Weston-super-Mare.

LADY Dispenser (Hall qualifications) desires post, Locum or permanent, in London area. B. Wedlake, 33 Fairview Road, South Tottenham, N.15.

LADY, 9 years' experience, Counter, Photographic and Stock, desires permanency. 87/21, Office of this Paper.

LADY Dispenser, qualified, requires post, Birmingham, Wolverhampton, or near; 2 years' experience with Hospital and Doctors; commence moderate salary; excellent testimonials. 86/40, Office of this Paper.

LOCUM, just disengaged, desires engagements; six months' continuous references; good Retail and L.C.C. Asylums. Fitt, 36 St. Stephen's Road, Norwich.

LOCUM; thoroughly competent, reliable, industrious; town or country; reasonable terms; disengaged. Particulars "Locum," 239 Camberwell New Road, S.E.5.

LOCUM or permanency; 35; excellent experience and references; good appearance; any district. C/o Vint, Chemist, Hastings.

LONDON.—Young qualified man requires situation in high-class Pharmacy, preferably West-End; high-class general training; can arrange interview. "K. R. D.", 89 Beechdale Road, S.W.2.

MANAGER, experienced; young; single; first-class West-End Assistantship, good suburban management; Optics, Photography; wuld invest good concern; free. 87/28, Office of this Paper.

MANAGER, free October 21, 4½ years' old-established Dispensing business, age 27, married; desires similar position; highest references. R. H. Carter, M.P.S., 80 The Crescent, New Malden, Surrey.

MANAGER or Senior, qualified, 34; good Retail, Dispensing and Photographic experience; some Optics; references; permanency; Northern Counties preferred, not essential; disengaged. C. O. Lawrence, Market Place, Loftus, Yorks.

MANAGER or Senior in good-class firm; qualified; of good appearance and address; excellent references; capable and acceptable to customers; abstainer. "W.", c/o Tims, Chemist, Alderley Edge.

MANAGER or Assistant; unqualified; with excellent experience; well up and not afraid of work, having made a special study of working-up branches. "R.", 39 Crayford Road, N.7.

MANCHESTER and District.—Assistant, 4½ years' experience, Counter, Dispensing, Photography, Windows, age 19 in December, seeks situation with facilities for studying; free one month after engagement; excellent references. c/o G. S. George, Chemist, 56 Moorgate, Bury.

M.P.S., 34, with exceptionally good all-round Business experience, including Photography, seeks Managership, with view to succession; possesses £150 cash and £300 in shares, which could be released in six months. Write "Symbols," 67/31, Office of this Paper.

M.P.S., F.S.M.C., 28 years' all-round experience, 17 years own successfully, desires part-time work, Birmingham or district, or would develop Optical connection; highest references. Gittins, 35 Livingstone Road, Birchfield, Birmingham.

M.P.S., F.B.O.A., 28, Scotsman, with wide Pharmaceutical experience, seeks permanent post in which double qualification will be employed. Particulars, "M.P.S., F.B.O.A.", 13 Grosvenor Gardens, Cricklewood, London, N.W.2.

PART-TIME, afternoons, one evening; Dispensing, Book-keeping; accounts written up. Miss "B.", 58 Pyrland Road, Highbury, N.5.

PART-TIME; 22, Part II Student desires 4 or 5 evenings weekly; any afternoons; some N.H.I.; London experience. "A.", 52 Stockwell Park Crescent, S.W.9.

PHARMACIST; 29; tall; single; total abstainer; 10 years' experience (excluding 3 years' Dispensing during Army service); N.H.I., Photographic, Prescribing; Manager or Assistant; London or South preferred; disengaged. "V." Saxon House, Regent Street, Shanklin, Isle of Wight.

REGISTERED elderly Super-Prescriber; moderate salary; good testimonials. D., Eastdean, Stamford Road, Bowdon, Cheshire.

QUALIFIED, 22; 5 ft. 9 in.; good all-round experience, Photography, Dispensing and Counter; Square trained; London district essential; disengaged. Hall, "Stoke Prior," Lenham Road, Sutton.

QUALIFIED Branch Manager; 14 years London; Provincial experience; Photographics, Dispensing, Counter; temperate habits, excellent references. "Pharmacist," 84/22, Office of this Paper.

QUALIFIED; Manager, Assistant, or Cover for company; experienced; abstainer; excellent references; £5 10s. per week; disengaged October 20. Summers, 98 Greyhound Lane, Streatham Common, S.W.16.

QUALIFIED Lady (Minor); thoroughly experienced Dispensing, Retail and Photographic, London; permanency. "Chemist," 56 Holmdale Road, West Hampstead, N.W.

QUALIFIED, tall, 22, desires post in London to obtain good experience in Counter and Dispensing; interview if required. Jones, 39 Mayflower Road, Clapham, S.W.9.

QUALIFIED; capable and fully experienced; disengaged 13th inst.; permanency, temporary or Locum. "Chemist," 26 Crosby Road, Forest Gate, E.7.

RELIABLE Assistant, 45, with high-class Dispensing and Retail experience; excellent references. D. T. Morgan, 294 London Road, Thornton Heath.

SMALL Branch charge, Locum, or other capacity; qualified; single; 50; experienced, capable, adaptable. Chemist, 21 Freehold Street, Northampton.

SUNDAY or Evening Work wanted by experienced woman Dispenser (Hall), in neighbourhood of Charing Cross or Fulham Road. "Saxin," 85/23, Office of this Paper.

TEMPORARY Management or Locum work wanted by qualified Chemist pending completion of own premises; 42; excellent credentials; proficient in all branches of Chemist's business; disengaged now. Apply "B. P." 87/35, Office of this Paper.

TEIGNMOUTH OR NEAR.—Lady, 28; 5½ years' Retail (three as apprentice), 4 years' Wholesale; Doctor or Chemist; whole or part time. Ivens, 6 Higher Brimley Terrace, Teignmouth.

UNQUALIFIED Male Assistant seeks post; experienced Dispenser, etc.; age 23. Scoggins, 93 College Road, Norwich.

WOULD I suit you?—Male; 25; unqualified; general experience; photo; good references. Weller, Blenheim Place, Sholing, Southampton.

YOUNG Lady; unqualified; good knowledge of Retail Pharmacy; excellent references; temporary or permanent. C. Flack, 214 Droop Street, Queen's Park, W.10.

YOUNG lady, Hall qualification, requires post as Dispenser in London; S.W. preferred; shop or Institution; experience desired; small salary accepted. 86/9, Office of this Paper.

£5.—Manager or Senior; age 27; single; capable, keen, energetic; good references. "Tempus," 15 Wearbay Road, Folkestone.

WHOLESALE.

ASSISTANT Chemist (in Works) or Laboratory; age 28; single; 4 years' war service; educated Public School; B.Sc. Inter. (Lond.); French fairly fluent, some German; scientific knowledge both languages; has had some commercial experience; willing to take any post. M.L. 4772/22, Office of this Paper.

B.S.C. (Lond.), Hon. Chem., A.R.C.Sc.; 2 years' research experience; 26; single; moderate salary to commence; will go abroad. M.L. 2469/24, Office of this Paper.

B.S.C. (Hons. Chem.), 26, educated Public School, University, desires post in works on Research, Plant or Analytical; good knowledge Chemistry Physics, French, German, Book-keeping. M.L. 4467/22, Office of this Paper.

EXPERIENCED Representative requires post; all-round knowledge of the trade; qualified Pharmacist; permanency; at liberty. 86/36, Office of this Paper.

GENTLEMAN, sound experience, excellent connection South and West of England, wishes to represent good Drug or Sundries House. 85/27, Office of this Paper.

HOSPITAL Traveller, thoroughly experienced, wishes to represent first-class firm. P.C.B. 13/10, Office of this Paper.

OIL Chemist, 28, 4 years' war service, M.C., B.Sc. (Hons. Chemistry), A.R.C.Sc., A.I.C., good technical French, experienced Laboratory Chemist, Oilfields, 12 months' experience research work Oil Technology Department, is willing to take any post in keeping with qualifications. M.L. 44162, Office of this Paper.

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Write for particulars : ARTHUR J. GILLIAN, Gen. Sec.

149 Newington Causeway, LONDON, S.E.1(4)

PILL and Tablet Maker requires situation; experienced; good references. 85/11, Office of this Paper.

REPRESENTATIVE, well known in the Midlands, with 16 years' sound personal connection, is open to represent a house of repute; well up in Sundries and Toilets; highest references. 87/9, Office of this Paper.

REPRESENTATIVE, qualified, requires post; calling on Medical Profession with Ethical Products; well conversant with the work; excellent references. P.C.B. 13/28, Office of this Paper.

TRAVELLER, strong connection with Wholesale Houses only throughout England and Scotland, shortly disengaged. "Drusand," 52 Porchester Road, London, W.2.

TRAVELLER, own car, connection Midlands, Cheshire, Lancs., N. Wales. is open for additional line. 85/14, Office of this Paper.

WORKS Chemist, B.Sc. Technology (Manchester), 26, single; French and German; 2 years' experience as Assistant to Pharmacists; willing to take any post. M.L. 5800/23, Office of this Paper.

YOUNG Lady requires post as Clerk in Sales or Order Dept.; knowledge of pricing, invoicing, typing and shorthand; 9 years' experience Retail and Wholesale with London house. 85/29, Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNICK, Stock and Share Brokers, Westminster Bank Chambers, Blackheath, S.E.3. Established 1898. Telephone : 81 Ice Green. Shares for Sale, free of commission (subject) :—10 Allenbury B 6% Pfs., 20s. 3d., x.d.; 75 C 6% Pfs., 20s. 1½d., x.d.; 50 7% Pfd. Ord., 22s. 3d., x.d.; 25 8% Pfd. Ord., 22s. 6d., x.d.; 500 Beechams Ord., 20s. 10½d.; 500 C Ash Ord., 19s. 6d.; 900 Dental Mfg. £1 shares, 7s. 4½d.; 360 Heppells 7% Partg. Pfs., 19s. 4½d., c.d.; 20 Idris "A" Ord., 17s.; 600 International Sponge 6% Pfs., 12s. 1½d.; 150 Nathan 7% Pfs., 13s.; 165 x 8% 7s. 9d. Wanted (subject) :—500 Wright Layman Pfs., 19s. x.d.

CHEMIST'S Fittings (second-hand).—Ranges of Drug Drawers, Shelving, All Glass Counters, Centre Cases, Window Fittings of all descriptions. D. MATTHEWS & SON, Chemist Fitters, 14/16, Manchester Street, Liverpool.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.2.

LIMITED Companies formed not only for Chemists and Opticians, but for any trade. Established 1905. Books, seal, etc., are included in quotation. Advice free. A. B. SLACK, 15 Christ Church Avenue, West Didsbury, Manchester.

OVERLAND Motor Van; 83 model; specially adapted and fitted as travelling pharmacy; running order; £60. Mackay, Chemist, Dewsbury.

£144. SET of complete mahogany Shop Fittings, 7 ft. hand. some Dispensing Screen, 7 ft. Wall Case, 12 ft. Counter with cases in front, plate-glass Counter Case, two nests of Counter Drawers, 12 ft. Drug Fitting, Perfume Case and Desk, all-glass Counter; can easily be adapted. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.1.

EXCHANGE COLUMN.

FOR DISPOSAL.

OPTICAL TRIAL CASE; 56 pairs Spheres, Cylinders, Frame, Leather Case; bargain, £5. Call 41 Woodgrange Road, Forest Gate.

DISPENSING SCALES, stamped, complete with weights, almost new, 35s. 6d.; new Pill Machine, Maw's (24), 22s. 6d.; Suppository Mould, nickel plated (12), new, 17s. 6d. Craingold, Chemist, Cheetham, Hill Road, Manchester.

WANTED.

PHARMACEUTICAL Books wanted; send priced list. Gower, Bookseller 41 Voltaire Road, Clapham.

STOKES' No. 42 GRANULATING MACHINE wanted. Condition and price to 52/612, Office of this Paper.

NATIONAL CASH REGISTER. Model 745, or similar; must be in good condition. Please state price and full particulars. 86/13, Office of this Paper.

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